

Indiana  
Maternal and Child Health  
Outcomes and Performance Measures  
**DATA BOOK**

State and selected county data  
**2007-2016**



Indiana State  
Department of Health

**Indiana Maternal and Child Health Outcomes and Performance Measures Data Book  
State and Selected County Data, 2007 – 2016**

**Indiana State Department of Health**

Health and Human Services Commission  
Division of Maternal and Child Health Epidemiology  
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## **Glossary of Terms**

## **Appendix**

## Preface

The Indiana Maternal and Child Health Outcomes and Performance Measures Data Book, 2007 – 2016, provides a summary of data relating to pregnancy, birth, and mortality in Indiana and selected counties for the years 2007 – 2016.

Information for this report was obtained from birth and death certificates filed with the Indiana State Department of Health (ISDH) and from transcripts of original certificates for Indiana residents giving birth or dying in other states. The ISDH Division of Maternal and Child Health (MCH) in collaboration with the ISDH Epidemiology Resource (ERC) Data Analysis Team compiled these data to produce this report.

Indiana began using the 2003 U.S. Standard Certificate of Live Birth (the 2003 “revised” certificate) on January 1, 2007. Although much of the information collected from the mother remained the same, some questions were rephrased or the information gathered in a different manner. This resulted in significant changes to some variables. The major variables that were affected in this report were the month prenatal care began and smoking during pregnancy. **Data on prenatal care and tobacco use for the years 2007 and later are not considered comparable to prior years due to the significant changes in wording on the certificates.** These changes are detailed below:

Prenatal Care: The month prenatal care began has been changed from a box asking for the month of pregnancy in which prenatal care began to questions asking for the date of last normal menses and the date of the first prenatal visit. The month prenatal care began was then calculated from these two variables. If the day of the month was unknown, the day of the month was imputed using a program that the National Center for Health Statistics (NCHS) developed. NCHS observed a decrease in the percent of mothers receiving care in the first month for all states that adopted the revised certificate, and it is considered to be the result of better reporting.

Adequacy of Prenatal Care Utilization (Kotelchuck Index): The data for 2007 and later are not comparable with data from previous years. The percent of women beginning prenatal care in the first trimester decreased from 2006 to 2007 because of the change in the question(s) asked (please see above). Since this variable is central to the calculation of the Kotelchuck Index, the Index is likewise affected.

Tobacco Use: Prior to 2007, the question was asked “Did mother smoke during pregnancy?” Depending on the response, the facility would check one of the following boxes: Yes, No, or Unknown. Beginning in 2007, more detailed information was collected – the average number of cigarettes (or packs of cigarettes) that were smoked during the three months prior to becoming pregnant, the first three months of pregnancy, the second three months of pregnancy, and the last trimester of pregnancy. If the mother smoked at *any time during her pregnancy*, she was considered to be a smoker for this report. This is consistent with NCHS practice.

Preterm Birth: In this 2007 – 2016 MCH Outcomes report, the obstetrical estimate of gestation (clinical estimate of gestation) is used to calculate the preterm birth rates. The preterm birth rates in this report



are not comparable with the preterm data in MCH Outcomes reports for 1998 – 2007 through 2002 – 2011. Those reports used the calculated gestation based on the last menstrual period to determine preterm births.

Maternal Mortality: Prior to 2008, the question was asked “Was the decedent pregnant or 90 days postpartum?” and the response was a yes or no. Beginning in 2008, more detailed information was collected for females. The check boxes are as follows: pregnant at time of death; not pregnant within past year; not pregnant, but pregnant within 42 days of death; not pregnant, but pregnant 43 days to 1 year before death; and unknown if pregnant within the past year.

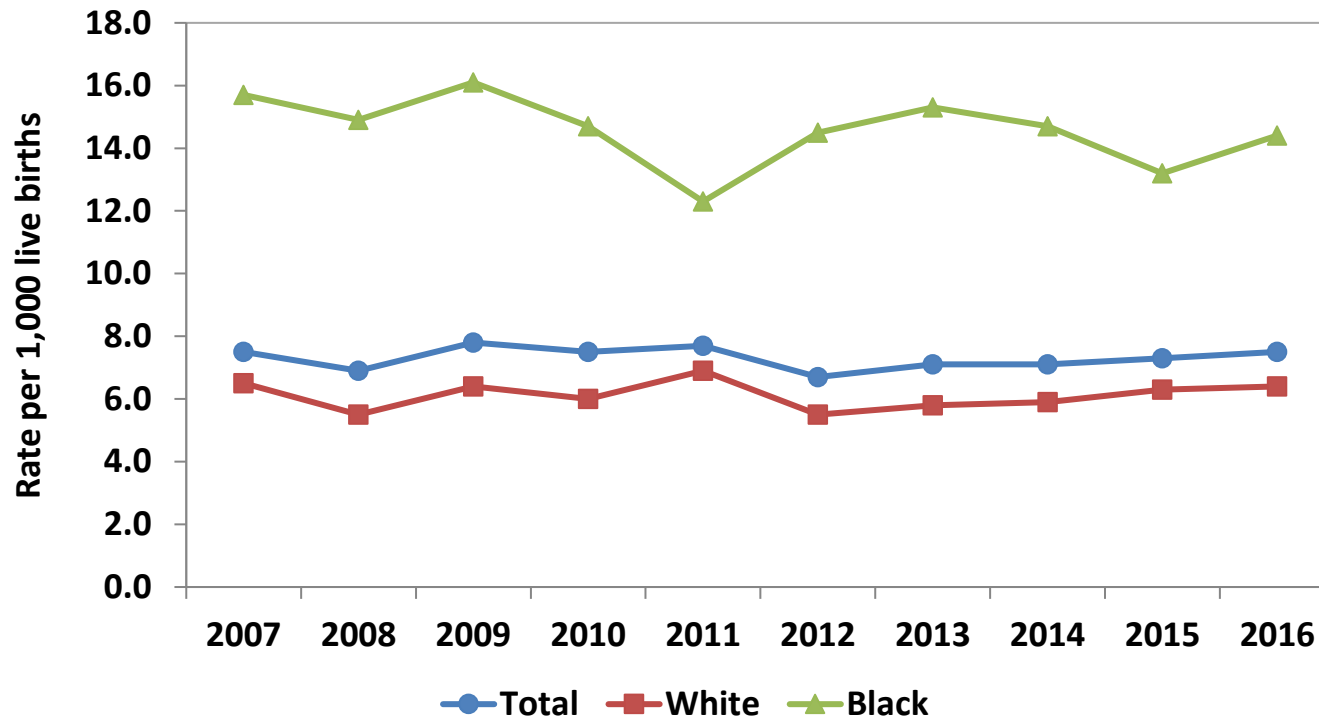
Race of Mother and Father: Indiana now uses the 1997 Office of Management and Budget (OMB) standards for collecting data on race and ethnicity. Beginning with the 2007 birth certificate, the mother and father could check more than one box for race. All racial and ethnicity information is now sent to NCHS, which imputes a single (“bridged”) race to the mother and father based on the combination of races, Hispanic origin, sex, and age. This “bridged” race is what is used in this report.

The relationship between the two OMB standards and the terms used to report race and ethnicity in this report are as follows:

Race		
1997 OMB Standards (Current)	1977 OMB Standards (Pre-2007)	This Report
American Indian or Alaska Native	American Indian or Alaska Native	Included in Other
Asian	Asian or Pacific Islander	Included in Other
Black or African American	Black	Black
Native Hawaiian or Other Pacific Islander	Asian or Pacific Islander	Included in Other
White	White	White

Ethnicity		
1997 OMB Standards (Current)	1977 OMB Standards (Pre-2007)	This Report
Hispanic or Latino	Hispanic	Hispanic
Not Hispanic or Latino	Non-Hispanic	Non-Hispanic

## Infant Mortality Rates by Race Indiana Residents, 2007 – 2016

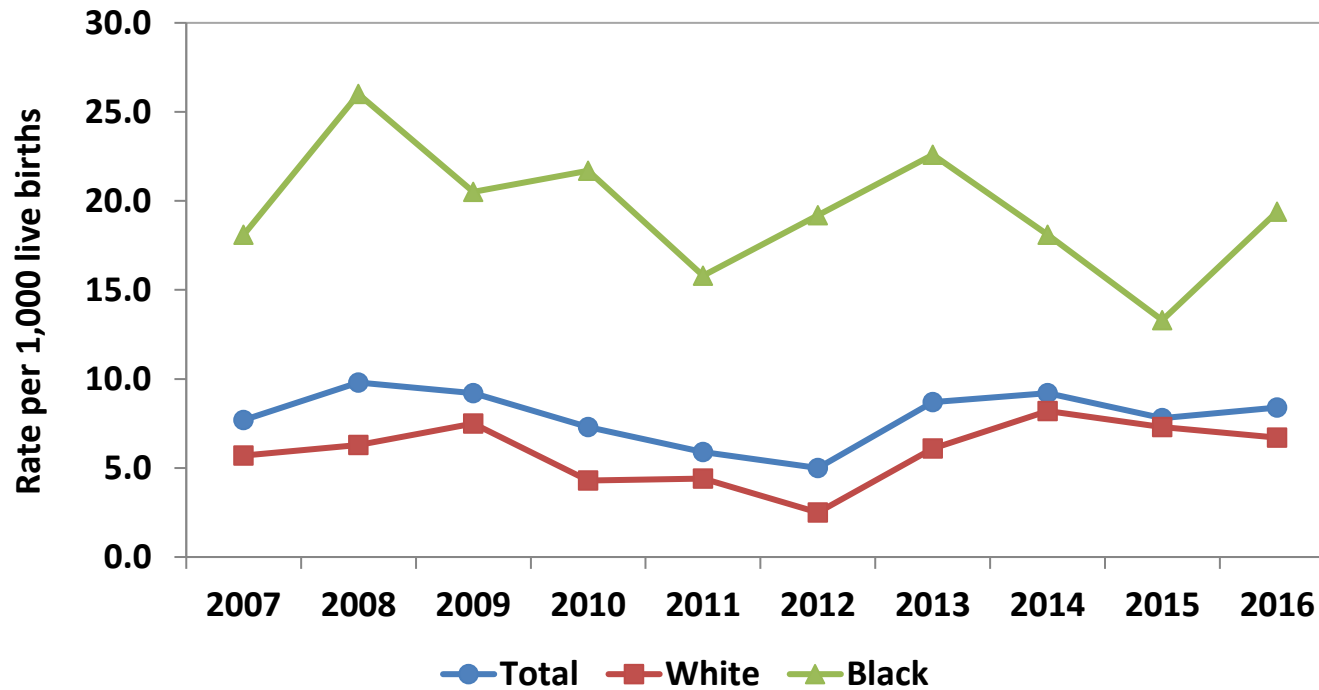


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	7.5	6.9	7.8	7.5	7.7	6.7	7.1	7.1	7.3	7.5
White	6.5	5.5	6.4	6.0	6.9	5.5	5.8	5.9	6.3	6.4
Black	15.7	14.9	16.1	14.7	12.3	14.5	15.3	14.7	13.2	14.4

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race Allen County Residents, 2007 – 2016



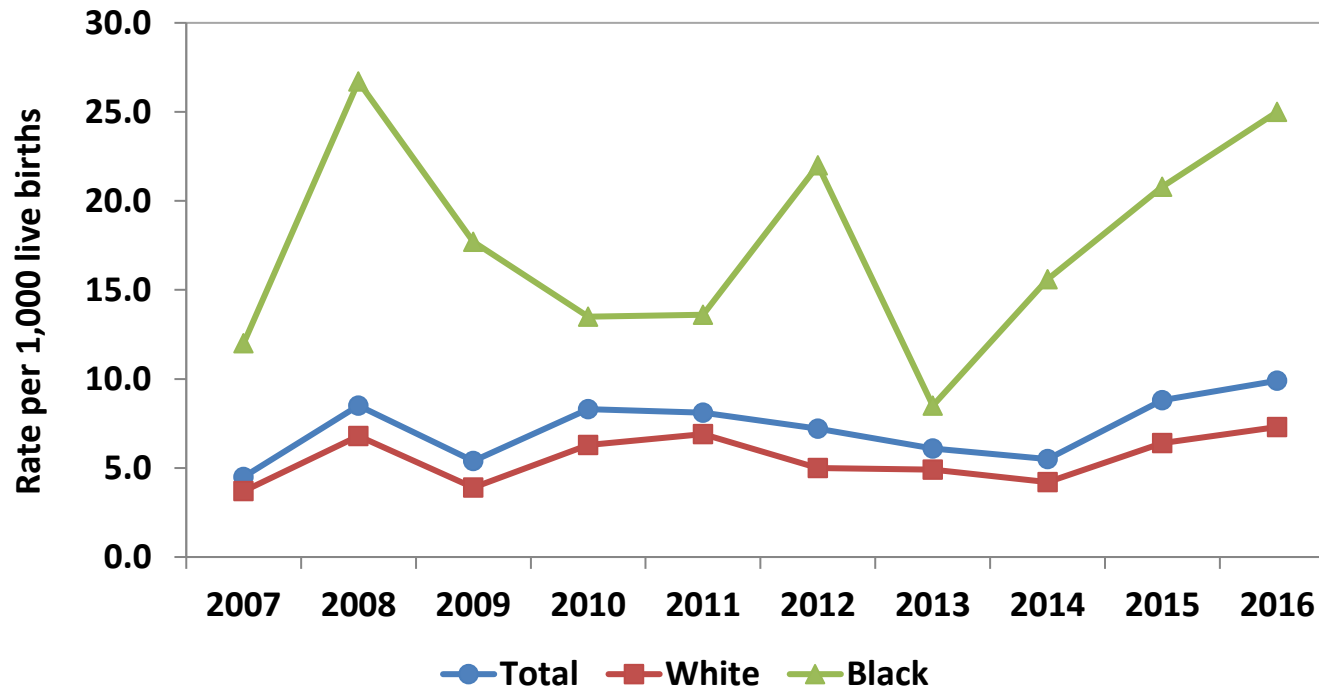
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	7.7	9.8	9.2	7.3	5.9	5.0	8.7	9.2	7.8	8.4
<b>White</b>	5.7	6.3	7.5	4.3*	4.4*	2.5*	6.1	8.2	7.3	6.7
<b>Black</b>	18.1*	26.0	20.5*	21.7*	15.8*	19.2*	22.6*	18.1*	13.3*	19.4*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race Elkhart County Residents, 2007 – 2016



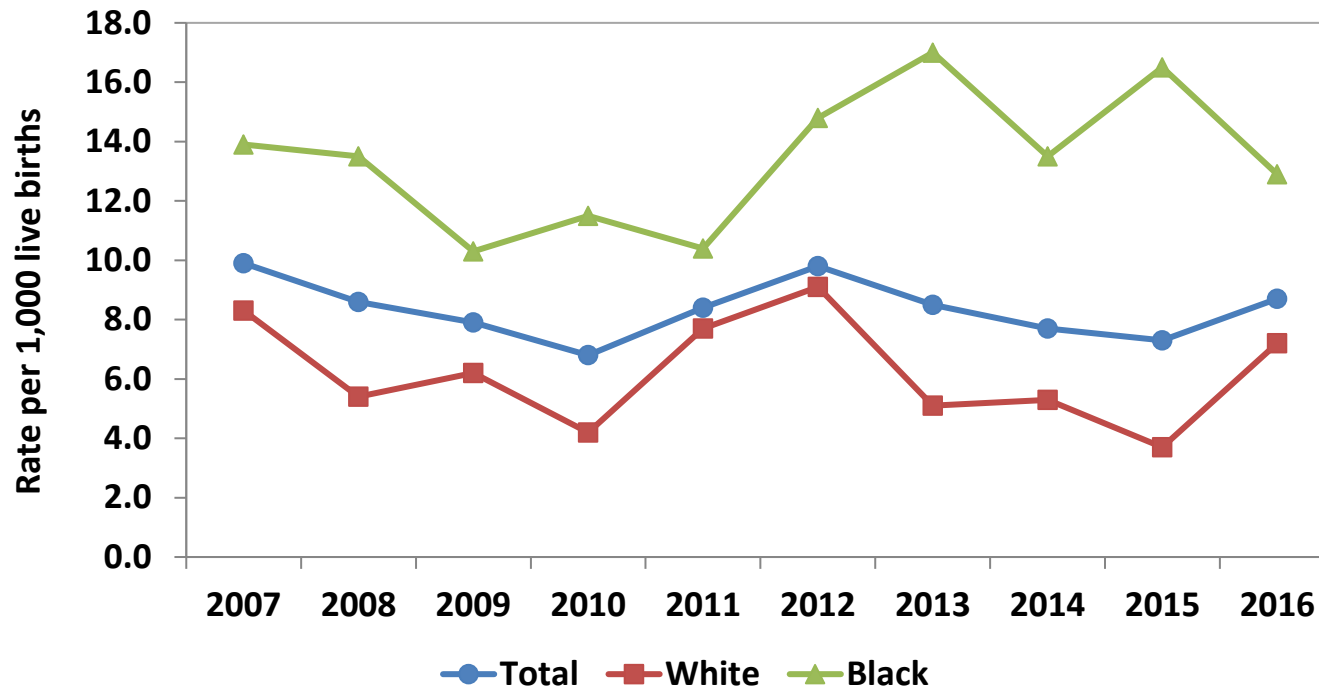
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	4.5*	8.5	5.4*	8.3	8.1	7.2	6.1*	5.5*	8.8	9.9
White	3.7*	6.8	3.9*	6.3*	6.9*	5.0*	4.9*	4.2*	6.4*	7.3
Black	12.0*	26.7*	17.7*	13.5*	13.6*	22.0*	8.5*	15.6*	20.8*	25.0*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race Lake County Residents, 2007 – 2016



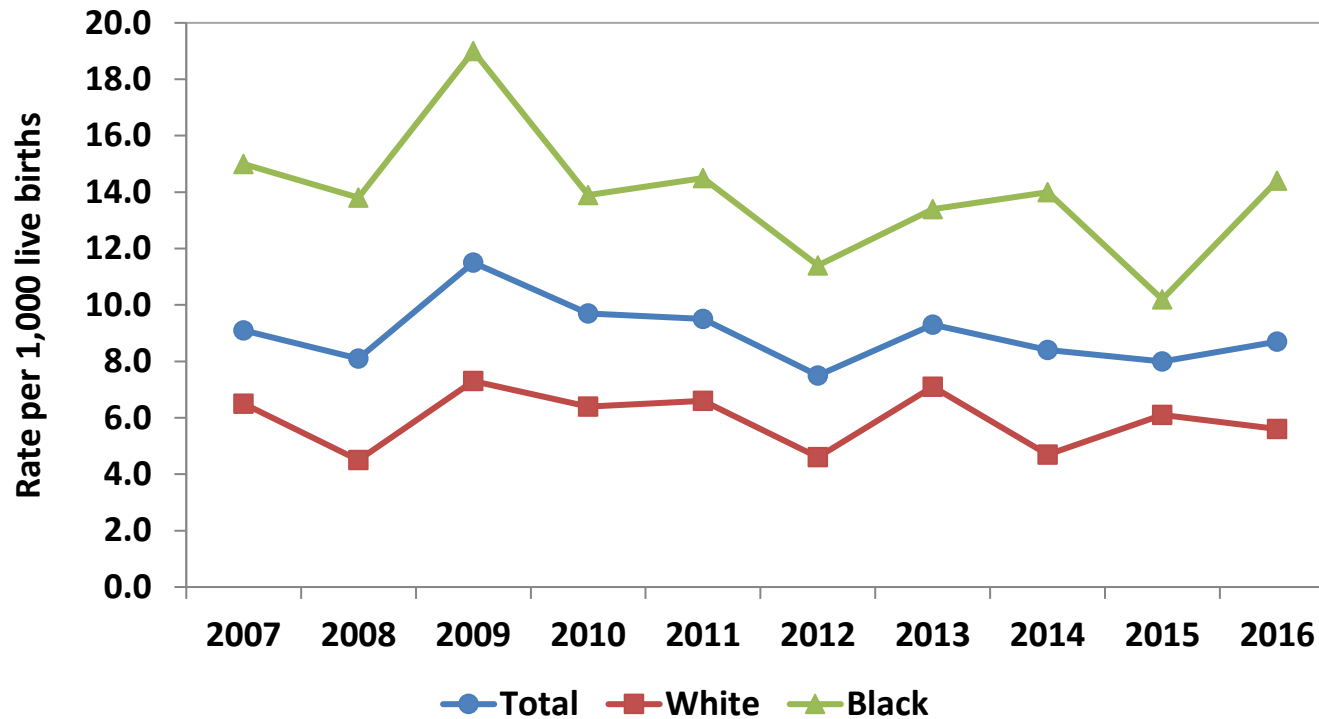
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	9.9	8.6	7.9	6.8	8.4	9.8	8.5	7.7	7.3	8.7
White	8.3	5.4	6.2	4.2*	7.7	9.1	5.1*	5.3	3.7*	7.2
Black	13.9	13.5	10.3	11.5	10.4	14.8	17.0	13.5	16.5	12.9

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race Marion County Residents, 2007 – 2016

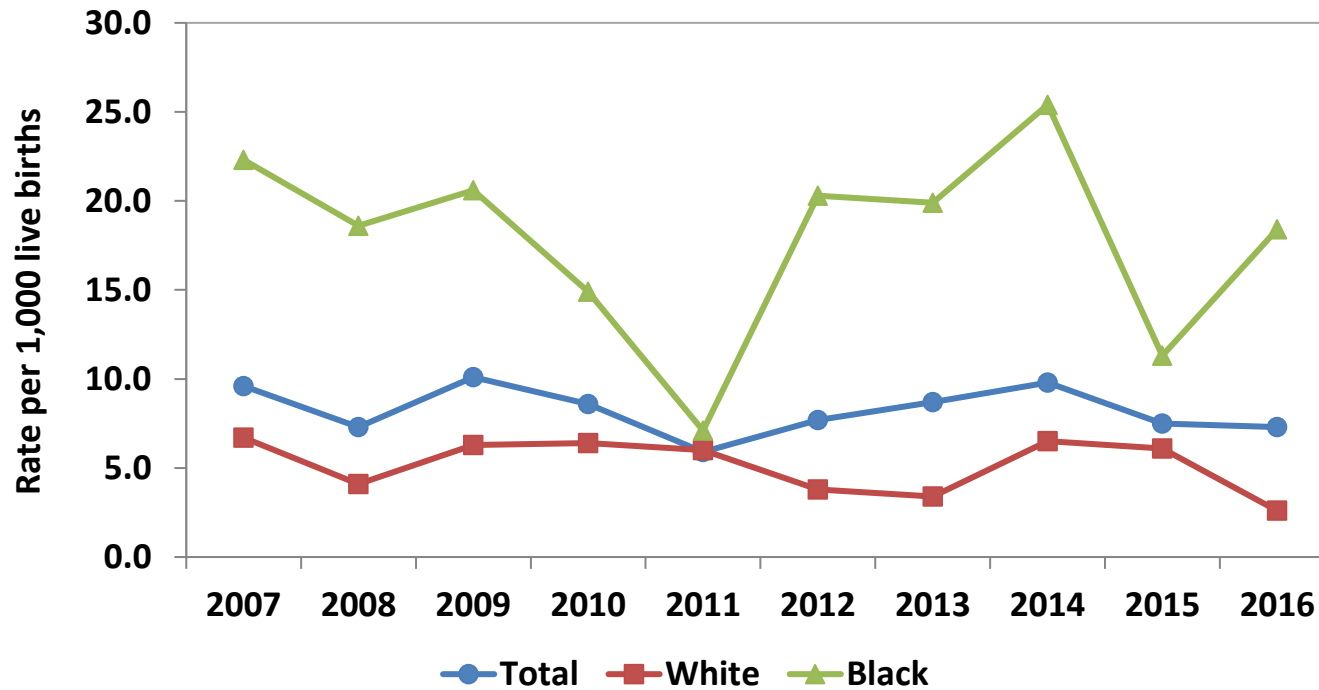


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	9.1	8.1	11.5	9.7	9.5	7.5	9.3	8.4	8.0	8.7
White	6.5	4.5	7.3	6.4	6.6	4.6	7.1	4.7	6.1	5.6
Black	15.0	13.8	19.0	13.9	14.5	11.4	13.4	14.0	10.2	14.4

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race St. Joseph County Residents, 2007 – 2016



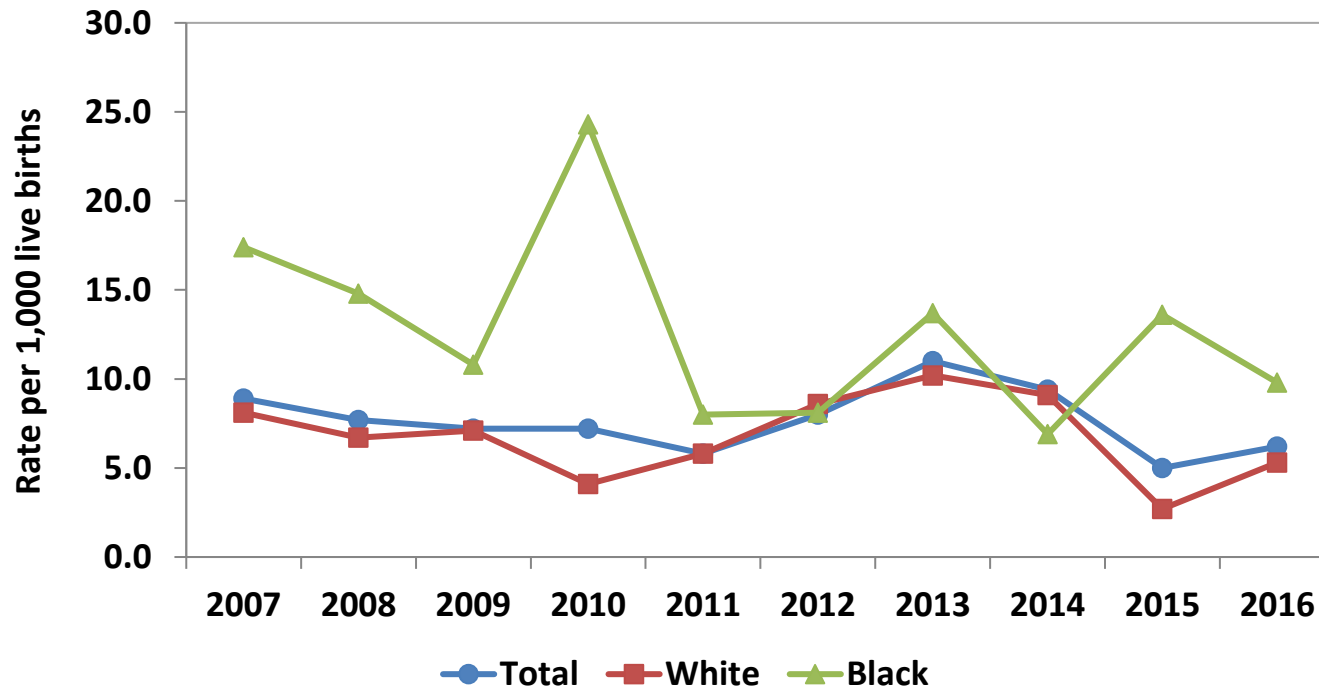
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	9.6	7.3	10.1	8.6	5.9	7.7	8.7	9.8	7.5	7.3
White	6.7	4.1*	6.3*	6.4*	6.0*	3.8*	3.4*	6.5*	6.1*	2.6*
Black	22.3*	18.6*	20.6*	14.9*	7.1*	20.3*	19.9*	25.4*	11.4*	18.4*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Race Vanderburgh County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	8.9	7.7*	7.2*	7.2*	5.8*	8.0*	11.0	9.4	5.0*	6.2*
White	8.1*	6.7*	7.1*	4.1*	5.8*	8.6*	10.2*	9.1*	2.7*	5.3*
Black	17.4*	14.8*	10.8*	24.3*	8.0*	8.1*	13.7*	6.9*	13.6*	9.8*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Infant Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates Indiana Residents, 2007 – 2016

	2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<b>INDIANA</b>	677	7.5	616	6.9	675	7.8	630	7.5	643	7.7	556	6.7	594	7.1	597	7.1	613	7.3	623	7.5
White	499	6.5	409	5.5	458	6.4	420	6.0	479	6.9	371	5.5	393	5.8	403	5.9	437	6.3	435	6.4
Black	162	15.7	156	14.9	164	16.1	148	14.7	122	12.3	146	14.5	153	15.3	153	14.7	137	13.2	151	14.4
Ratio	2.4		2.7		2.5		2.5		1.8		2.6		2.6		2.5		2.1		2.3	
<b>ALL RACES</b>	323	8.6	310	8.4	349	9.5	297	8.4	280	8.0	262	7.5	302	8.8	290	8.4	265	7.7	287	11.2
Allen	42	7.7	54	9.8	50	9.2	39	7.3	31	5.9	26	5.0	44	8.7	48	9.2	41	7.8	43	8.4
Elkhart	16	4.5	29	8.5	17	5.4	25	8.3	24	8.1	22	7.2	18	6.1	17	5.5	28	8.8	31	9.9
Lake	67	9.9	57	8.6	53	7.9	44	6.8	52	8.4	59	9.8	51	8.5	47	7.7	43	7.3	49	8.7
Marion	140	9.1	124	8.1	176	11.5	142	9.7	139	9.5	109	7.5	133	9.3	123	8.4	116	8.0	124	8.7
St. Joseph	36	9.6	28	7.3	36	10.1	30	8.6	21	5.9	27	7.7	31	8.7	34	9.8	26	7.5	26	7.3
Vanderburgh	22	8.9	18	7.7	17	7.2	17	7.2	13	5.8	19	8.0	25	11.0	21	9.4	11	5.0	14	6.2
<b>WHITE</b>	180	6.5	140	5.3	173	6.7	137	5.5	152	6.3	121	5.2	138	6.2	139	5.9	135	5.7	136	5.9
Allen	25	5.7	26	6.3	31	7.5	18	4.3	18	4.4	10	2.5	23	6.1	32	8.2	29	7.3	26	6.7
Elkhart	12	3.7	21	6.8	11	3.9	17	6.3	18	6.9	13	5.0	12	4.9	11	4.2	17	6.4	20	7.3
Lake	37	8.3	22	5.4	26	6.2	17	4.2	28	7.7	31	9.1	18	5.1	20	5.3	14	3.7	25	7.2
Marion	69	6.5	46	4.5	74	7.3	60	6.4	61	6.6	40	4.6	57	7.1	42	4.7	54	6.1	48	5.6
St. Joseph	20	6.7	12	4.1	17	6.3	17	6.4	16	6.0	10	3.8	9	3.4	17	6.5	16	6.1	7	2.6
Vanderburgh	17	8.1	13	6.7	14	7.1	8	4.1	11	5.8	17	8.6	19	10.2	17	9.1	5	2.7	10	5.3
<b>BLACK</b>	135	15.6	140	15.8	144	16.8	124	14.5	106	12.8	116	13.9	129	15.5	128	15.0	105	12.4	127	15.1
Allen	16	18.1	24	26.0	18	20.5	18	21.7	13	15.8	16	19.2	18	22.6	15	18.1	11	13.3	15	19.4
Elkhart	**	12.0	7	26.7	**	17.7	**	13.5	**	13.6	5	22.0	**	8.5	**	15.6	6	20.8	6	25
Lake	30	13.9	30	13.5	22	10.3	24	11.5	20	10.4	28	14.8	32	17.0	25	13.5	29	16.5	23	12.9
Marion	66	15.0	61	13.8	83	19.0	62	13.9	63	14.5	51	11.4	59	13.4	65	14.0	47	10.2	66	14.4
St. Joseph	15	22.3	14	18.6	14	20.6	10	14.9	5	7.1	14	20.3	14	19.9	17	25.4	8	11.3	14	18.4
Vanderburgh	5	17.4	**	14.8	**	10.8	7	24.3	**	8.0	**	8.1	**	13.7	**	6.9	**	13.6	**	9.8
<b>RATIO</b>																				
Allen		3.2		4.1		2.7		5.0		3.6		7.7		3.7		2.2		1.8		2.9
Elkhart		3.2		3.9		4.5		2.1		2.0		4.4		1.7		3.8		3.3		3.4
Lake		1.7		2.5		1.7		2.7		1.4		1.6		3.3		2.5		4.4		1.8
Marion		2.3		3.1		2.6		2.2		2.2		2.5		1.9		3.0		1.7		2.6
St. Joseph		3.3		4.5		3.3		2.3		1.2		5.3		5.9		3.9		1.9		7.1
Vanderburgh		2.1		2.2		1.5		5.9		1.4		0.9		1.3		0.8		5.0		1.8

Rate per 1,000 live births.

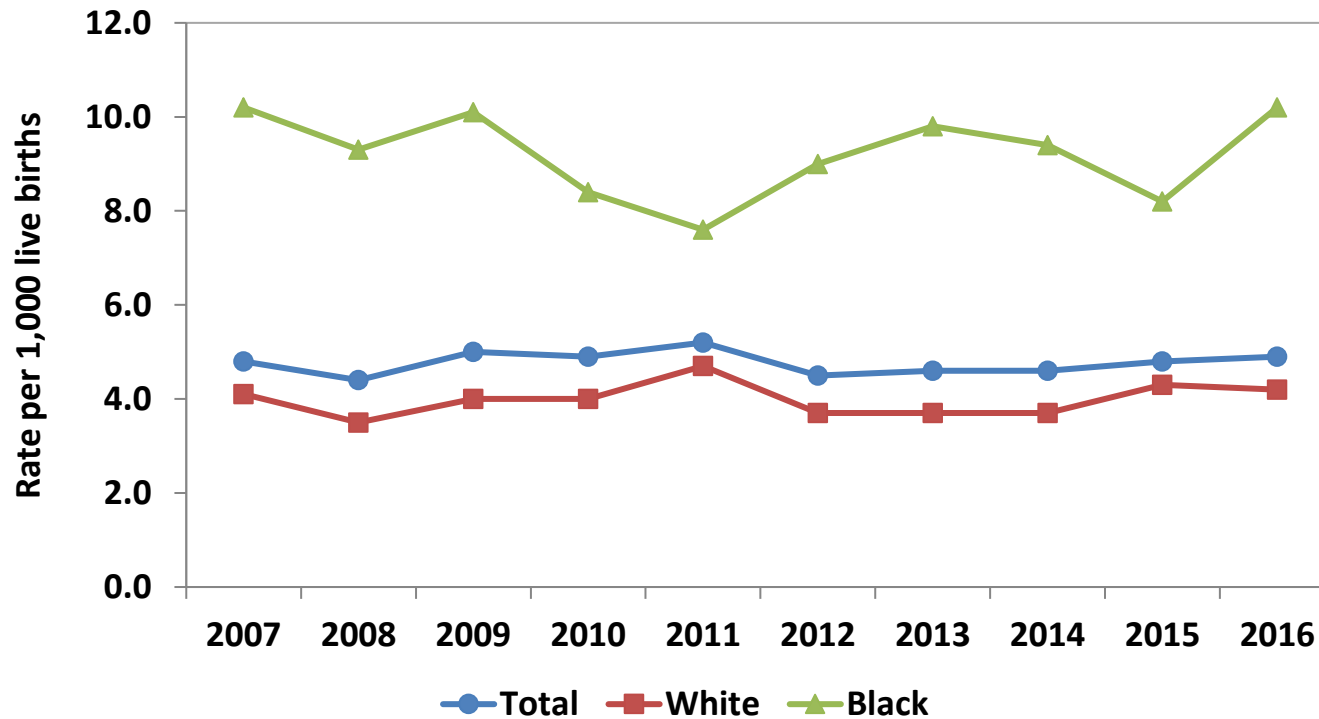
\*\*<5 deaths are suppressed, includes zero values

Shaded Area: Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Indiana Residents, 2007 – 2016

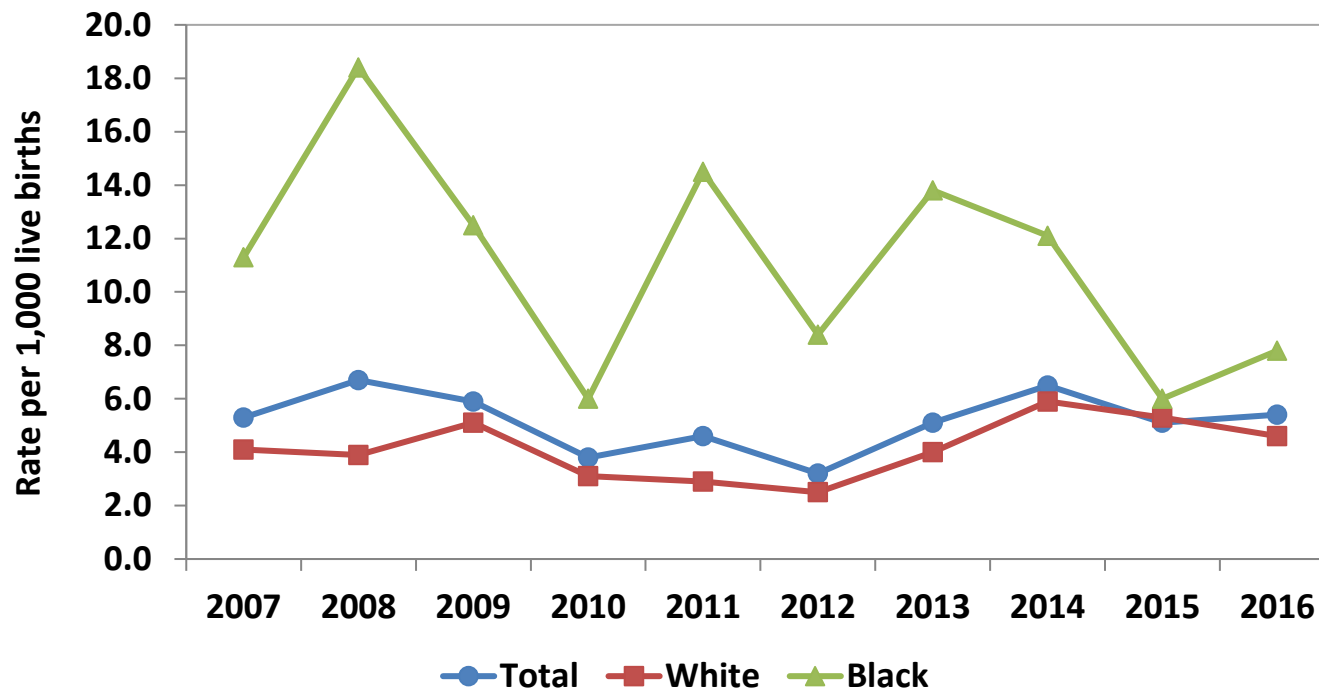


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	4.8	4.4	5.0	4.9	5.2	4.5	4.6	4.6	4.8	4.9
<b>White</b>	4.1	3.5	4.0	4.0	4.7	3.7	3.7	3.7	4.3	4.2
<b>Black</b>	10.2	9.3	10.1	8.4	7.6	9.0	9.8	9.4	8.2	10.2

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Allen County Residents, 2007 – 2016



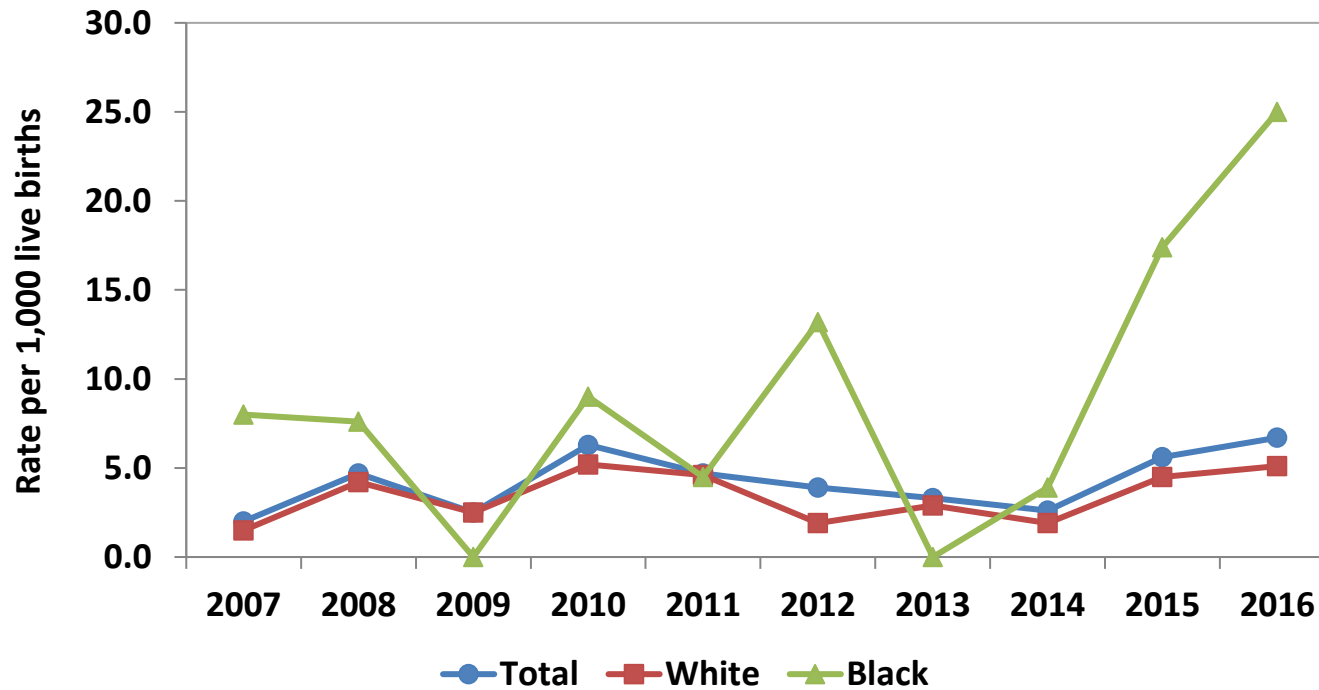
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	5.3	6.7	5.9	3.8	4.6	3.2*	5.1	6.5	5.1	5.4
<b>White</b>	4.1*	3.9*	5.1	3.1*	2.9*	2.5*	4.0*	5.9	5.3	4.6*
<b>Black</b>	11.3*	18.4*	12.5*	6.0*	14.5*	8.4*	13.8*	12.1*	6.0*	7.8*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Elkhart County Residents, 2007 – 2016



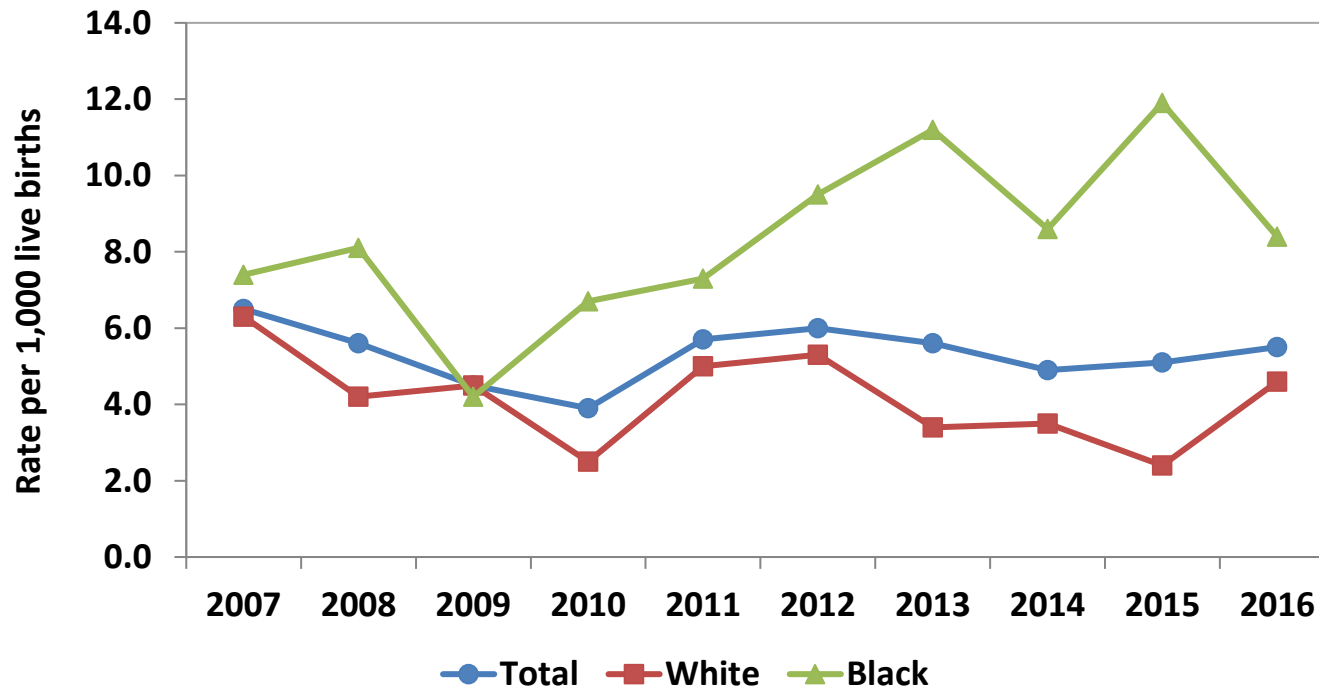
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.0*	4.7*	2.5*	6.3*	4.7*	3.9*	3.3*	2.6*	5.6*	6.7
<b>White</b>	1.5*	4.2*	2.5*	5.2*	4.6*	1.9*	2.9*	1.9*	4.5*	5.1*
<b>Black</b>	8.0*	7.6*	0.0*	9.0*	4.5*	13.2*	0.0*	3.9*	17.4*	25.0*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Lake County Residents, 2007 – 2016



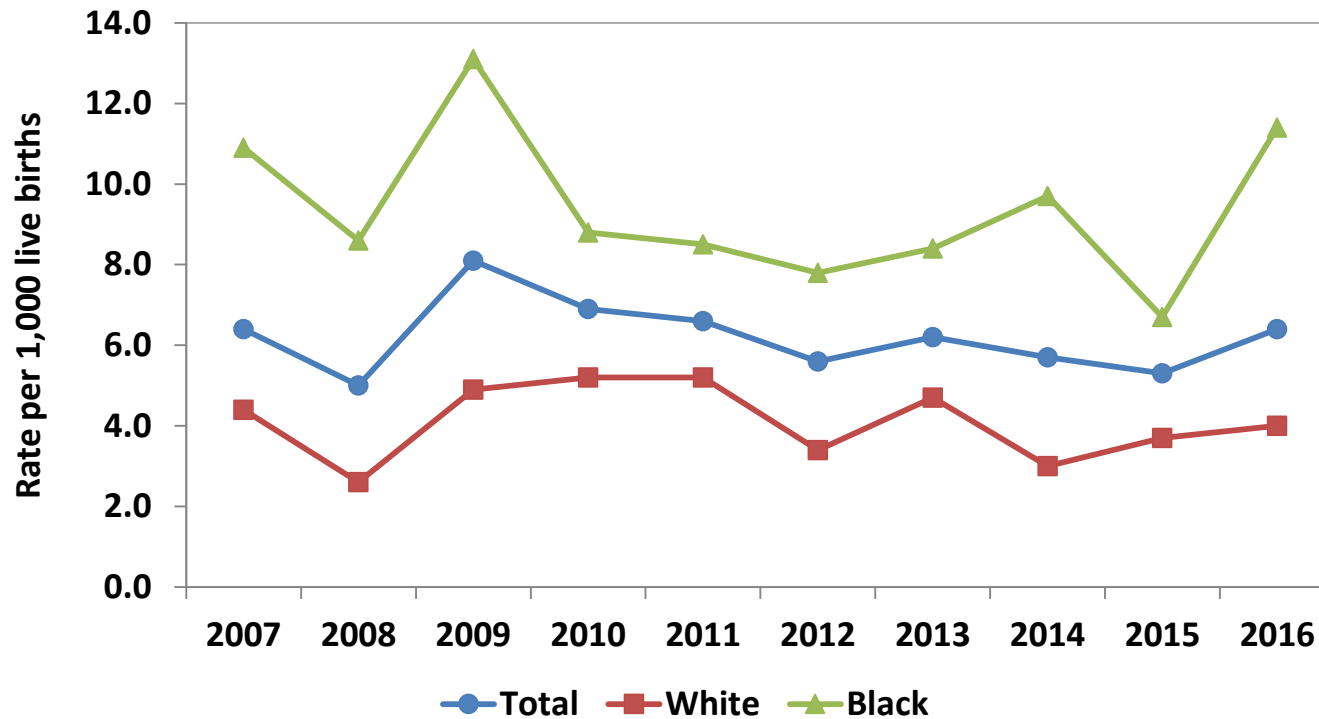
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	6.5	5.6	4.5	3.9	5.7	6.0	5.6	4.9	5.1	5.5
White	6.3	4.2*	4.5*	2.5*	5.0*	5.3*	3.4*	3.5*	2.4*	4.6*
Black	7.4*	8.1*	4.2*	6.7*	7.3*	9.5*	11.2	8.6*	11.9	8.4*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Marion County Residents, 2007 – 2016

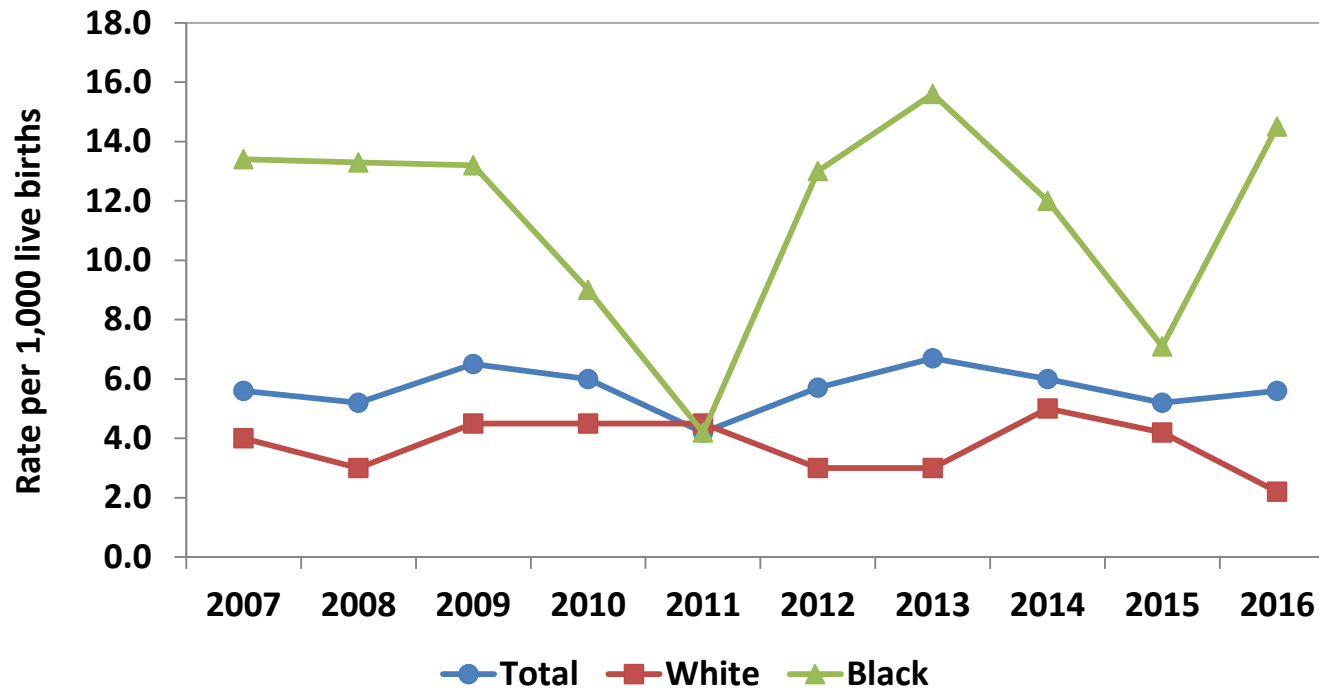


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	6.4	5.0	8.1	6.9	6.6	5.6	6.2	5.7	5.3	6.4
White	4.4	2.6	4.9	5.2	5.2	3.4	4.7	3.0	3.7	4.0
Black	10.9	8.6	13.1	8.8	8.5	7.8	8.4	9.7	6.7	11.4

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race St. Joseph County Residents, 2007 – 2016



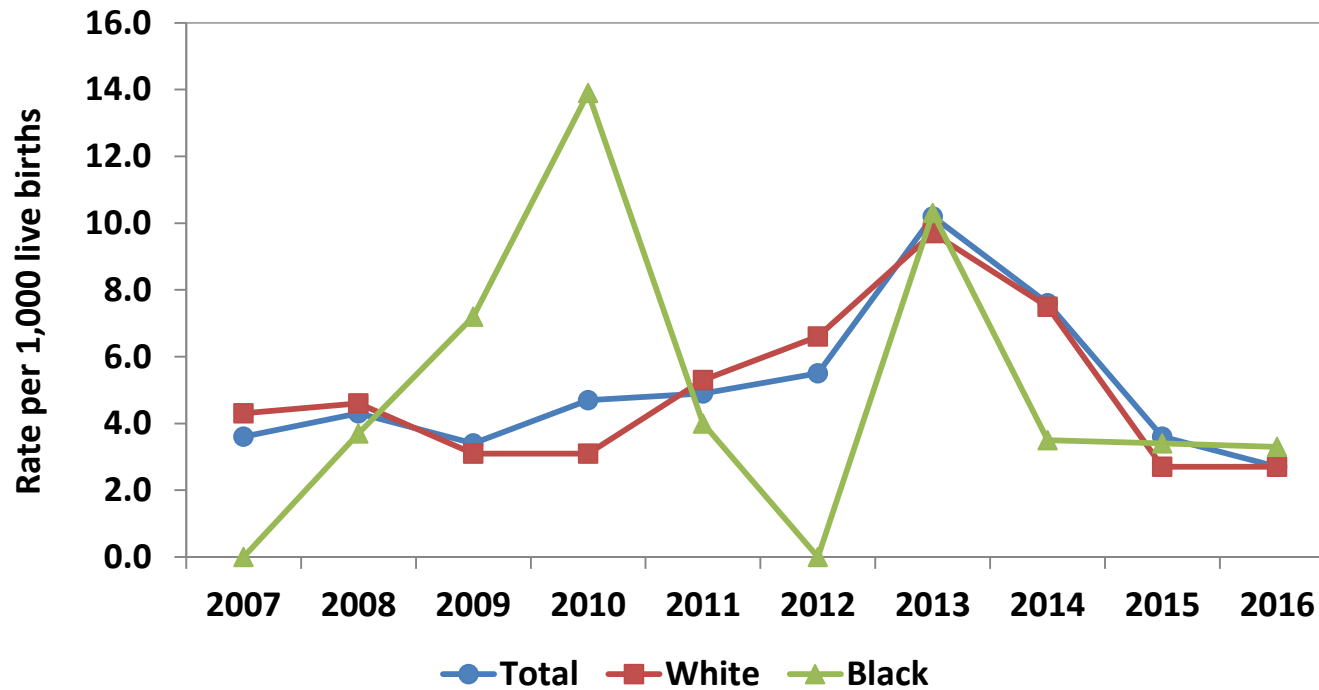
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	5.6	5.2	6.5	6.0	4.2*	5.7	6.7	6.0	5.2*	5.6
<b>White</b>	4.0*	3.0*	4.5*	4.5*	4.5*	3.0*	3.0*	5.0*	4.2*	2.2*
<b>Black</b>	13.4*	13.3*	13.2*	9.0*	4.2*	13.0*	15.6*	12.0*	7.1*	14.5*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Neonatal Mortality Rates by Race Vanderburgh County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	3.6*	4.3*	3.4*	4.7*	4.9*	5.5*	10.2	7.6*	3.6*	2.7*
<b>White</b>	4.3*	4.6*	3.1*	3.1*	5.3*	6.6*	9.7*	7.5*	2.7*	2.7*
<b>Black</b>	0.0*	3.7*	7.2*	13.9*	4.0*	0.0*	10.3*	3.5*	3.4*	3.3*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Neonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates Indiana Residents, 2007 – 2016

	2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<b>INDIANA</b>	428	4.8	387	4.4	428	5.0	407	4.9	435	5.2	371	4.5	381	4.6	388	4.6	407	4.8	413	4.9
White	313	4.1	258	3.5	290	4.0	282	4.0	327	4.7	250	3.7	248	3.7	258	3.7	295	4.3	286	4.2
Black	105	10.2	98	9.3	103	10.1	84	8.4	75	7.6	90	9.0	98	9.8	98	9.4	85	8.2	107	10.2
Ratio		2.5		2.7		2.5		2.1		1.6		2.4		2.6		2.5		1.9		2.4
<b>ALL RACES</b>	208	5.6	196	5.3	225	6.1	196	5.6	195	5.6	179	5.2	205	6.0	193	5.6	177	5.1	197	5.8
Allen	29	5.3	37	6.7	32	5.9	20	3.8	24	4.6	17	3.2	26	5.1	34	6.5	27	5.1	28	5.4
Elkhart	7	2.0	16	4.7	8	2.5	19	6.3	14	4.7	12	3.9	10	3.4	8	2.6	18	5.6	21	6.7
Lake	44	6.5	37	5.6	30	4.5	25	3.9	35	5.7	36	6.0	34	5.6	30	4.9	30	5.1	31	5.5
Marion	98	6.4	76	5.0	124	8.1	100	6.9	96	6.6	81	5.6	88	6.2	83	5.7	76	5.3	91	6.4
St. Joseph	21	5.6	20	5.2	23	6.5	21	6.0	15	4.2	20	5.7	24	6.7	21	6.0	18	5.2	20	5.6
Vanderburgh	9	3.6	10	4.3	8	3.4	11	4.7	11	4.9	13	5.5	23	10.2	17	7.6	8	3.6	6	2.7
<b>WHITE</b>	118	4.3	90	3.4	115	4.4	103	4.2	112	4.6	84	3.6	98	4.4	95	4.0	91	3.8	93	4.0
Allen	18	4.1	16	3.9	21	5.1	13	3.1	12	2.9	10	2.5	15	4.0	23	5.9	21	5.3	18	4.6
Elkhart	5	1.5	13	4.2	7	2.5	14	5.2	12	4.6	5	1.9	7	2.9	5	1.9	12	4.5	14	5.1
Lake	28	6.3	17	4.2	19	4.5	10	2.5	18	5.0	18	5.3	12	3.4	13	3.5	9	2.4	16	4.6
Marion	46	4.4	26	2.6	50	4.9	48	5.2	48	5.2	30	3.4	38	4.7	27	3.0	33	3.7	34	4.0
St. Joseph	12	4.0	9	3.1	12	4.5	12	4.5	12	4.5	8	3.0	8	3.0	13	5.0	11	4.2	6	2.2
Vanderburgh	9	4.3	9	4.6	6	3.1	6	3.1	10	5.3	13	6.6	18	9.7	14	7.5	5	2.7	5	2.7
<b>BLACK</b>	85	9.8	86	9.7	88	10.3	70	8.2	68	8.2	72	8.6	83	10.0	81	9.5	68	8.0	94	11.0
Allen	10	11.3	17	18.4	11	12.5	5	6.0	12	14.5	7	8.4	11	13.8	10	12.1	5	6.0	9	7.8
Elkhart	**	8.0	**	7.6	**	0.0	**	9.0	**	4.5	**	13.2	**	0.0	**	3.9	5	17.4	6	25
Lake	16	7.4	18	8.1	9	4.2	14	6.7	14	7.3	18	9.5	21	11.2	16	8.6	21	11.9	15	8.4
Marion	48	10.9	38	8.6	57	13.1	39	8.8	37	8.5	35	7.8	37	8.4	45	9.7	31	6.7	52	11.4
St. Joseph	9	13.4	10	13.3	9	13.2	6	9.0	**	4.2	9	13.0	11	15.6	8	12.0	5	7.1	11	14.5
Vanderburgh	**	0.0	**	3.7	**	7.2	**	13.9	**	4.0	**	0.0	**	10.3	**	3.4	**	3.4	**	3.3
<b>RATIO</b>																				
Allen		2.8		4.7		2.5		1.9		5.0		3.4		3.5		2.0		1.1		1.7
Elkhart		5.3		1.8		0.0		1.7		1.0		7.0		0.0		2.1		3.9		4.9
Lake		1.2		1.9		0.9		2.7		1.5		1.8		3.3		2.5		5.0		1.8
Marion		2.5		3.3		2.7		1.7		1.6		2.3		1.8		3.2		1.8		2.9
St. Joseph		3.4		4.3		2.9		2.0		0.9		4.3		5.2		2.4		1.7		6.6
Vanderburgh		0.0		0.8		2.3		4.5		0.8		0.0		1.1		0.5		1.3		1.2

Rate per 1,000 live births.

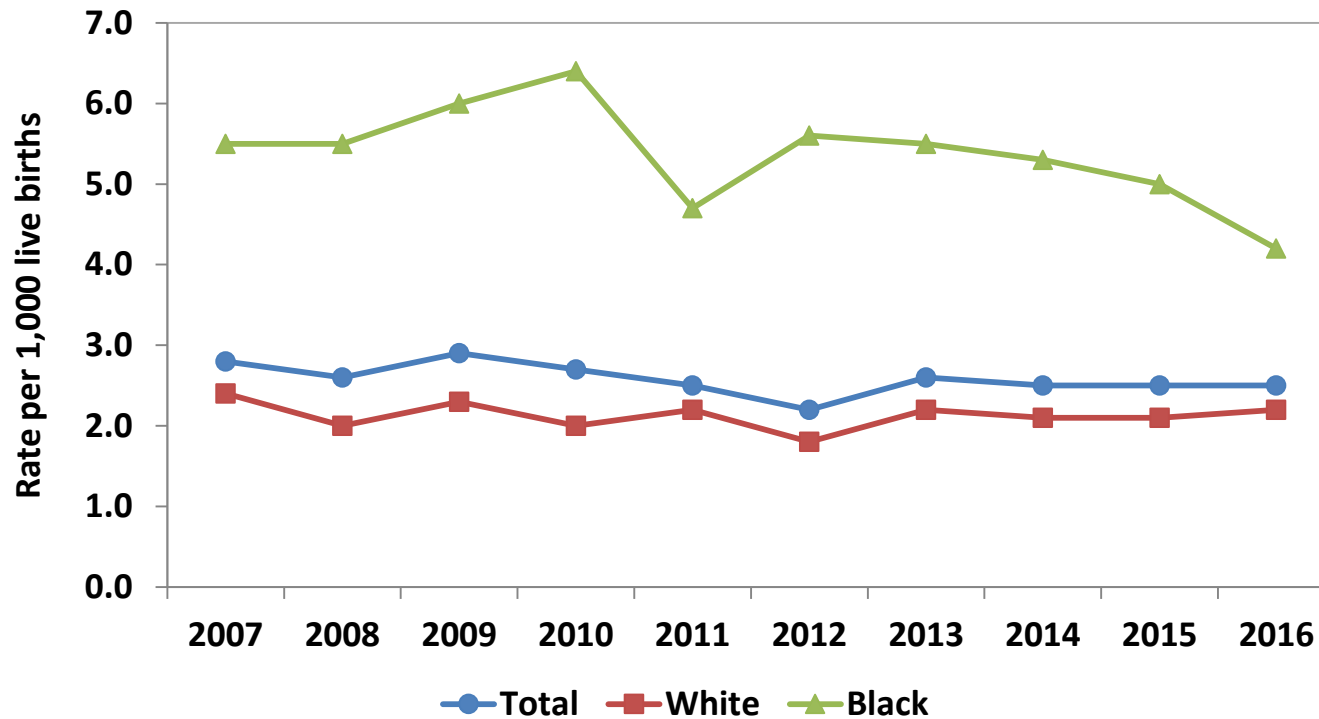
\*\*<5 deaths are suppressed, includes zero values

Shaded Area: Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Indiana Residents, 2007 – 2016

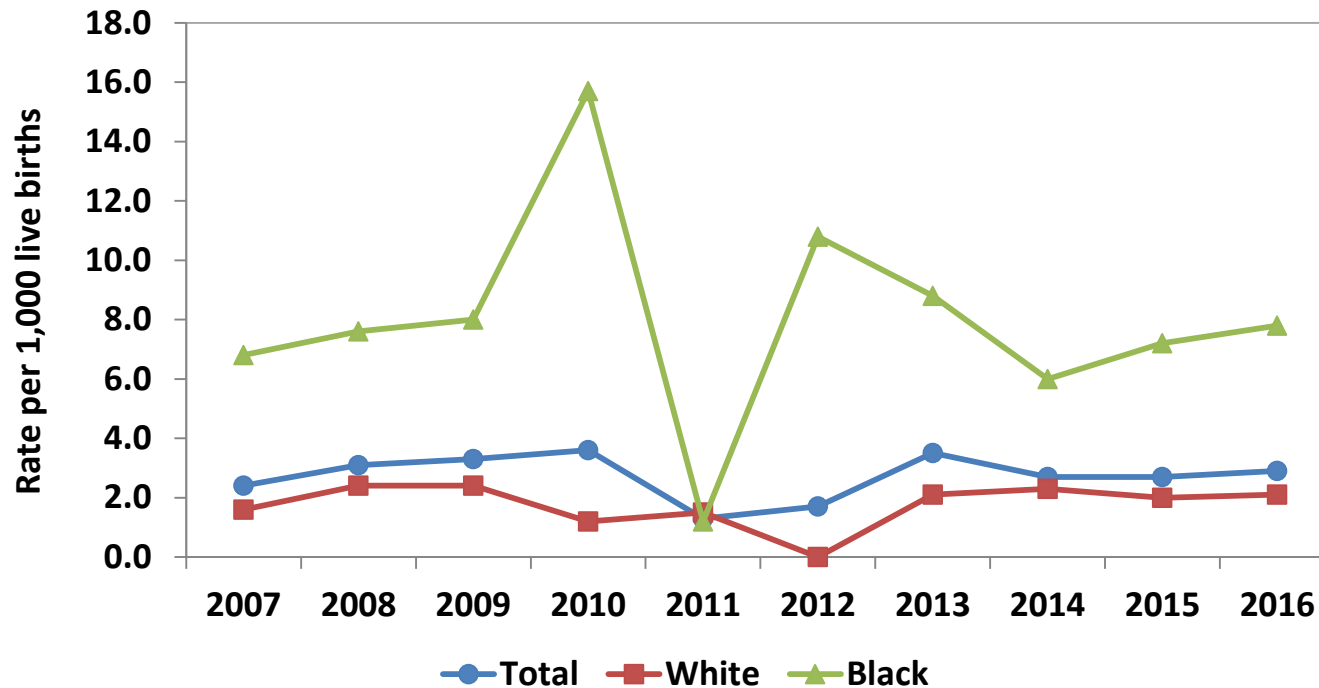


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.8	2.6	2.9	2.7	2.5	2.2	2.6	2.5	2.5	2.5
<b>White</b>	2.4	2.0	2.3	2.0	2.2	1.8	2.2	2.1	2.1	2.2
<b>Black</b>	5.5	5.5	6.0	6.4	4.7	5.6	5.5	5.3	5.0	4.2

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Allen County Residents, 2007 – 2016



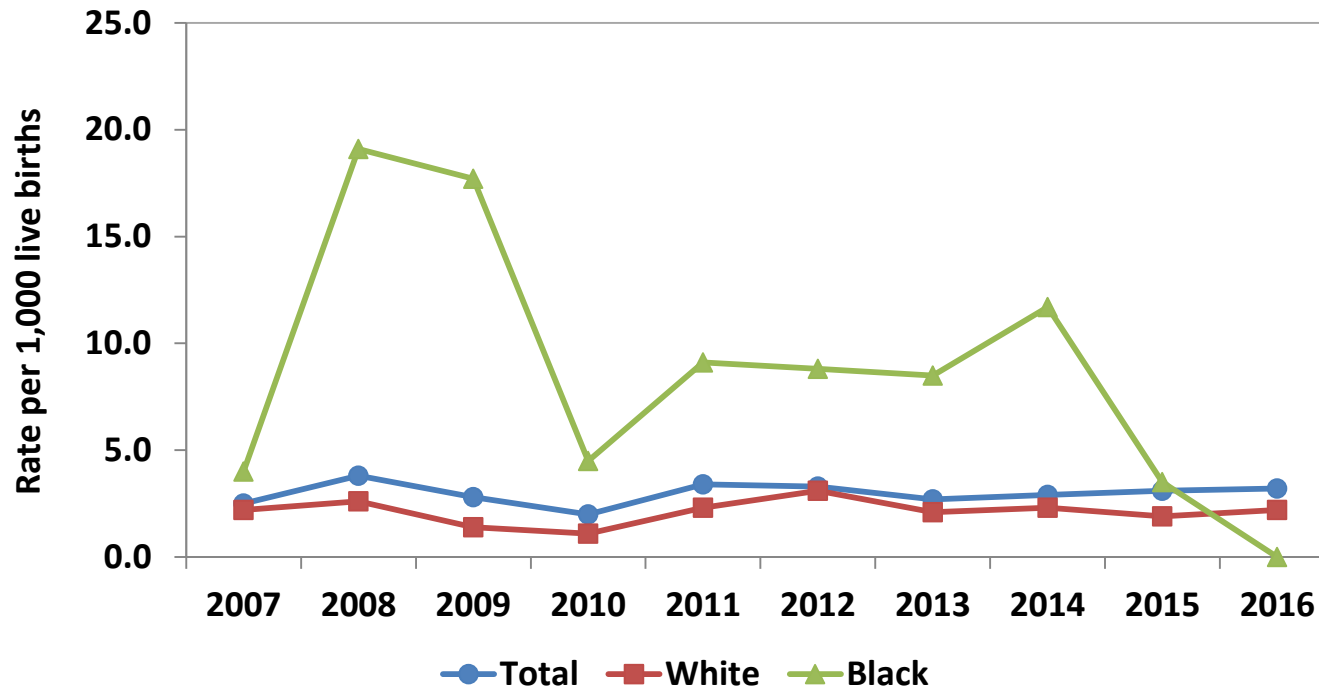
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.4*	3.1*	3.3*	3.6*	1.3*	1.7*	3.5*	2.7*	2.7*	2.9*
<b>White</b>	1.6*	2.4*	2.4*	1.2*	1.5*	0.0*	2.1*	2.3*	2.0*	2.1*
<b>Black</b>	6.8*	7.6*	8.0*	15.7*	1.2*	10.8*	8.8*	6.0*	7.2*	7.8*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Elkhart County Residents, 2007 – 2016



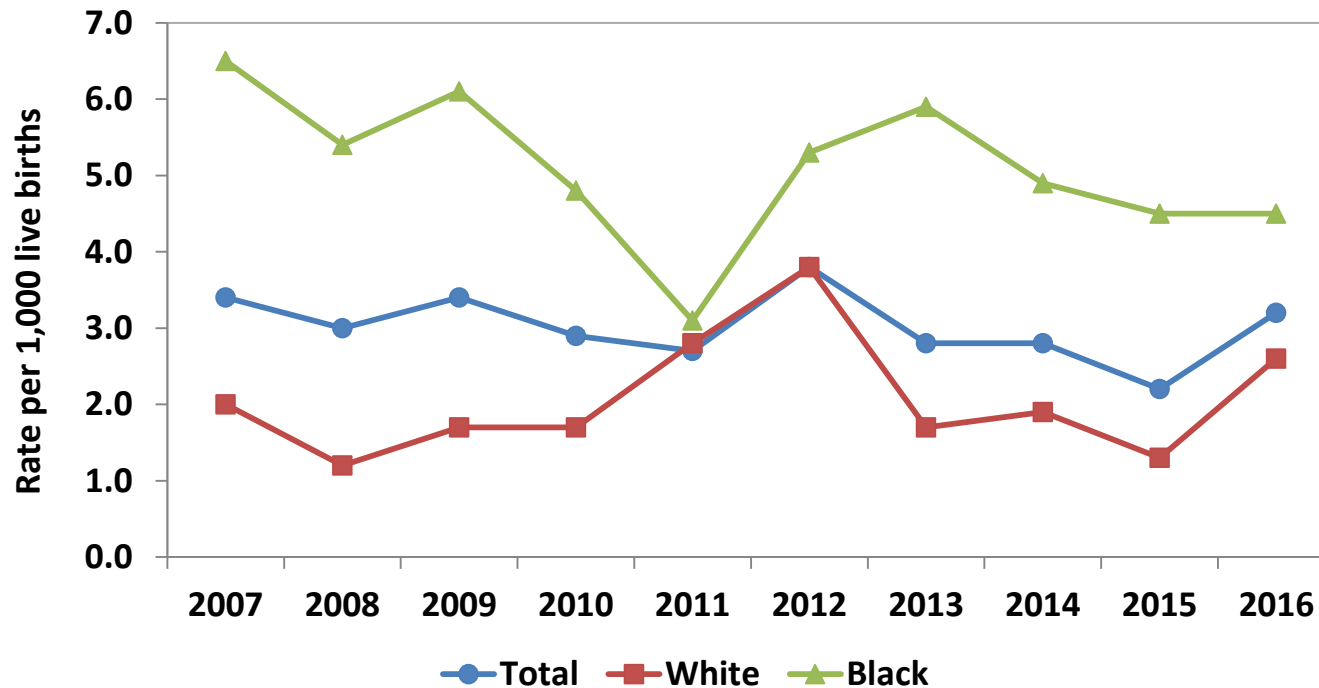
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.5*	3.8*	2.8*	2.0*	3.4*	3.3*	2.7*	2.9*	3.1*	3.2*
<b>White</b>	2.2*	2.6*	1.4*	1.1*	2.3*	3.1*	2.1*	2.3*	1.9*	2.2*
<b>Black</b>	4.0*	19.1*	17.7*	4.5*	9.1*	8.8*	8.5*	11.7*	3.5*	**

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Lake County Residents, 2007 – 2016



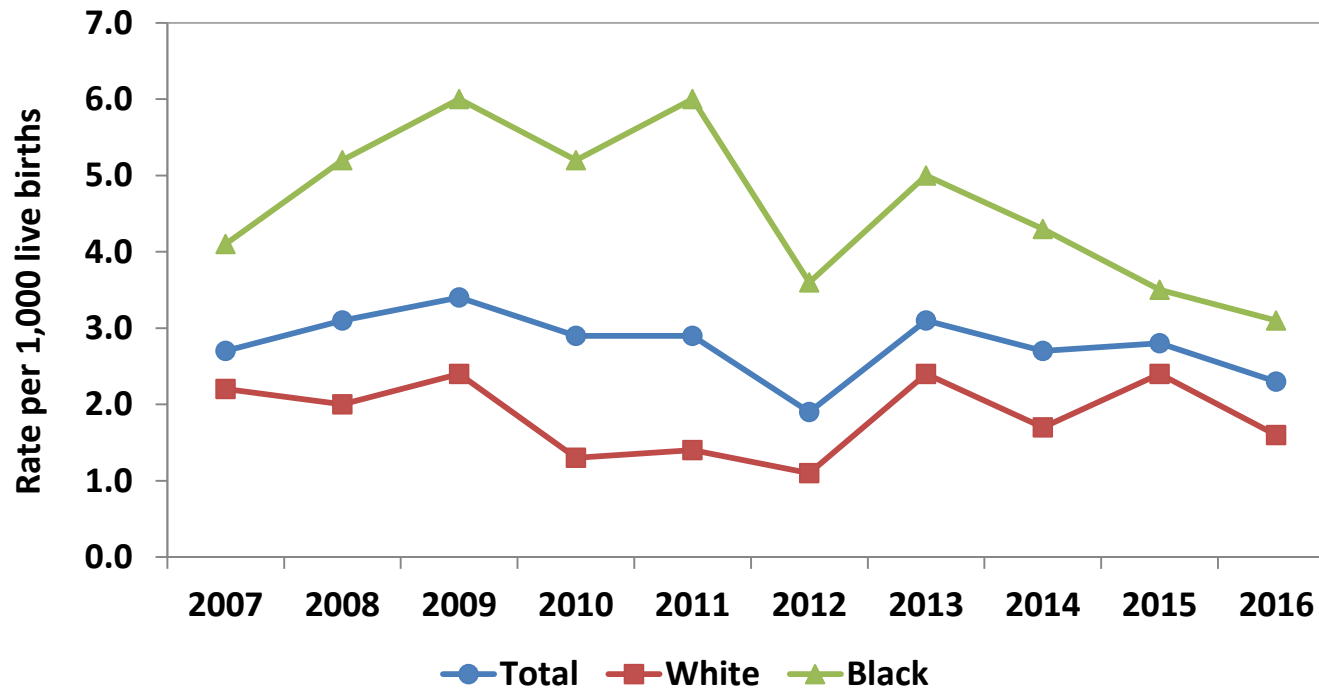
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	3.4	3.0	3.4	2.9*	2.7*	3.8	2.8*	2.8*	2.2*	3.2*
White	2.0*	1.2*	1.7*	1.7*	2.8*	3.8*	1.7*	1.9*	1.3*	2.6*
Black	6.5*	5.4*	6.1*	4.8*	3.1*	5.3*	5.9*	4.9*	4.5*	4.5*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Marion County Residents, 2007 – 2016



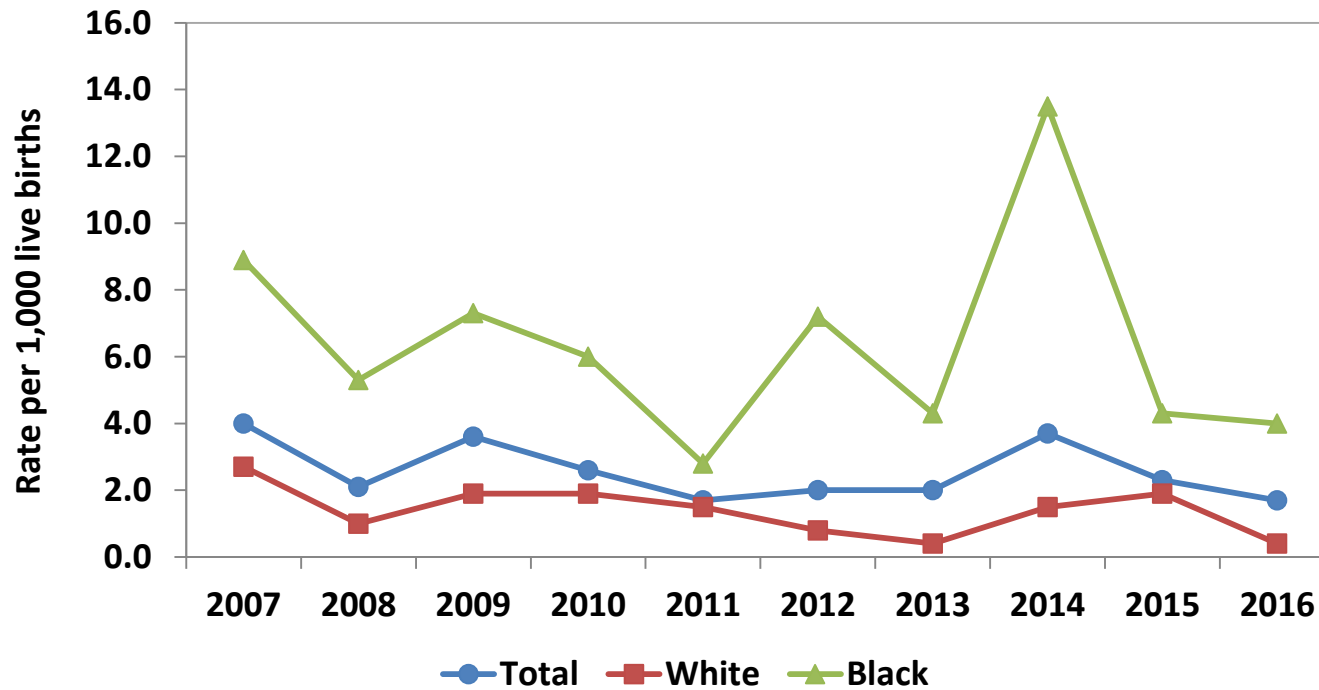
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	2.7	3.1	3.4	2.9	2.9	1.9	3.1	2.7	2.8	2.3
White	2.2	2.0	2.4	1.3*	1.4*	1.1*	2.4*	1.7*	2.4	1.6*
Black	4.1*	5.2	6.0	5.2	6.0	3.6*	5.0	4.3	3.5*	3.1*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race St. Joseph County Residents, 2007 – 2016



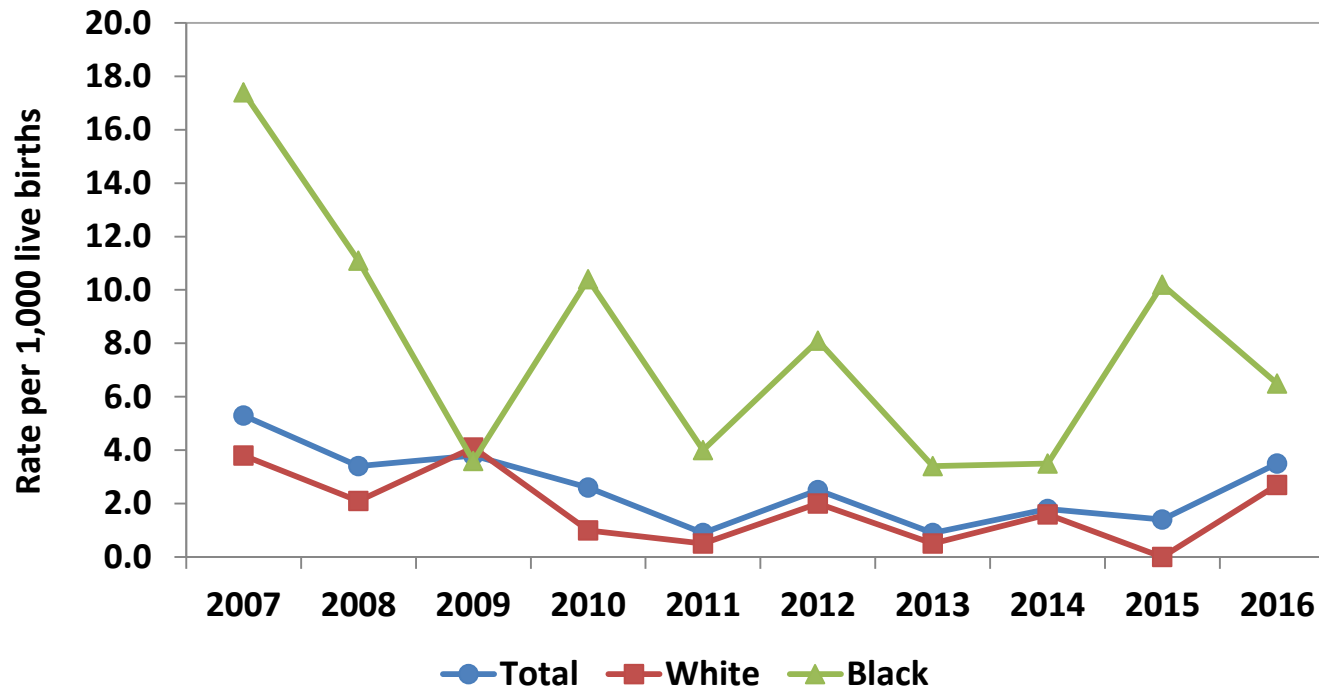
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	4.0*	2.1*	3.6*	2.6*	1.7*	2.0*	2.0*	3.7*	2.3*	1.7*
<b>White</b>	2.7*	1.0*	1.9*	1.9*	1.5*	0.8*	0.4*	1.5*	1.9*	0.4*
<b>Black</b>	8.9*	5.3*	7.3*	6.0*	2.8*	7.2*	4.3*	13.5*	4.3*	4.0*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Post-Neonatal Mortality Rates by Race Vanderburgh County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	5.3*	3.4*	3.8*	2.6*	0.9*	2.5*	0.9*	1.8*	1.4*	3.5*
White	3.8*	2.1*	4.1*	1.0*	0.5*	2.0*	0.5*	1.6*	0.0*	2.7*
Black	17.4*	11.1*	3.6*	10.4*	4.0*	8.1*	3.4*	3.5*	10.2*	6.5*

\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Post-Neonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates Indiana Residents, 2007 – 2016

	2007		2008		2009		2010		2011		2012		2013		2014		2015		2016	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
<b>INDIANA</b>	249	2.8	229	2.6	247	2.9	223	2.7	208	2.5	185	2.2	213	2.6	209	2.5	206	2.5	210	2.5
White	186	2.4	151	2.0	168	2.3	138	2.0	152	2.2	121	1.8	145	2.2	145	2.1	142	2.1	149	2.2
Black	57	5.5	58	5.5	61	6.0	64	6.4	47	4.7	56	5.6	55	5.5	55	5.3	52	5.0	44	4.2
Ratio	2.3		2.8		2.6		3.2		2.1		3.1		2.5		2.5		2.4		1.9	
<b>ALL RACES</b>	115	3.1	114	3.1	124	3.4	101	2.9	85	2.4	83	2.4	97	2.8	97	2.8	88	2.6	90	2.7
Allen	13	2.4	17	3.1	18	3.3	19	3.6	7	1.3	9	1.7	18	3.5	14	2.7	14	2.7	15	2.9
Elkhart	9	2.5	13	3.8	9	2.8	6	2.0	10	3.4	10	3.3	8	2.7	9	2.9	10	3.1	10	3.2
Lake	23	3.4	20	3.0	23	3.4	19	2.9	17	2.7	23	3.8	17	2.8	17	2.8	13	2.2	18	3.2
Marion	42	2.7	48	3.1	52	3.4	42	2.9	43	2.9	28	1.9	45	3.1	40	2.7	40	2.8	33	2.3
St. Joseph	15	4.0	8	2.1	13	3.6	9	2.6	6	1.7	7	2.0	7	2.0	13	3.7	8	2.3	6	1.7
Vanderburgh	13	5.3	8	3.4	9	3.8	6	2.6	**	0.9	6	2.5	**	0.9	**	1.8	**	1.4	8	3.5
<b>WHITE</b>	62	2.2	50	1.9	58	2.2	34	1.4	40	1.7	37	1.6	40	1.8	44	1.9	44	1.9	47	2.0
Allen	7	1.6	10	2.4	10	2.4	5	1.2	6	1.5	**	0.0	8	2.1	9	2.3	8	2.0	8	2.1
Elkhart	7	2.2	8	2.6	**	1.4	**	1.1	6	2.3	8	3.1	5	2.1	6	2.3	5	1.9	10	2.2
Lake	9	2.0	5	1.2	7	1.7	7	1.7	10	2.8	13	3.8	6	1.7	7	1.9	5	1.3	9	2.6
Marion	23	2.2	20	2.0	24	2.4	12	1.3	13	1.4	10	1.1	19	2.4	15	1.7	21	2.4	14	1.6
St. Joseph	8	2.7	**	1.0	5	1.9	5	1.9	**	1.5	**	0.8	**	0.4	**	1.5	5	1.9	**	**
Vanderburgh	8	3.8	**	2.1	8	4.1	**	1.0	**	0.5	4	2.0	**	0.5	**	1.6	**	0.0	5	2.7
<b>BLACK</b>	50	5.8	54	6.1	56	6.5	54	6.3	38	4.6	44	5.3	46	5.5	47	5.5	37	4.4	33	3.9
Allen	6	6.8	7	7.6	7	8.0	13	15.7	**	1.2	9	10.8	7	8.8	5	6.0	6	7.2	6	7.8
Elkhart	**	4.0	5	19.1	**	17.7	**	4.5	**	9.1	**	8.8	**	8.5	**	11.7	**	3.5	**	**
Lake	14	6.5	12	5.4	13	6.1	10	4.8	6	3.1	10	5.3	11	5.9	9	4.9	8	4.5	8	4.5
Marion	18	4.1	23	5.2	26	6.0	23	5.2	26	6.0	16	3.6	22	5.0	20	4.3	16	3.5	14	3.1
St. Joseph	6	8.9	**	5.3	5	7.3	**	6.0	**	2.8	5	7.2	**	4.3	9	13.5	**	4.3	3	4.0
Vanderburgh	5	17.4	**	11.1	**	3.6	**	10.4	**	4.0	**	8.1	**	3.4	**	3.4	**	10.2	2	6.5
<b>RATIO</b>																				
Allen	4.3		3.2		3.3		13.1		0.8		N/A		4.2		2.6		3.6		3.7	
Elkhart	1.8		7.3		12.6		4.1		4.0		2.8		4.0		5.2		1.9		N/A	
Lake	3.3		4.5		3.6		2.8		1.1		1.4		3.5		2.6		3.4		1.7	
Marion	1.9		2.6		2.5		4.0		4.3		3.3		2.1		2.6		1.5		1.3	
St. Joseph	3.3		5.3		3.8		3.2		1.9		9.0		10.8		8.8		2.2		N/A	
Vanderburgh	4.6		5.3		0.9		10.4		8.0		4.1		6.8		2.1		N/A		1.9	

Rate per 1,000 live births.

\*\*<5 deaths are suppressed, includes zero values

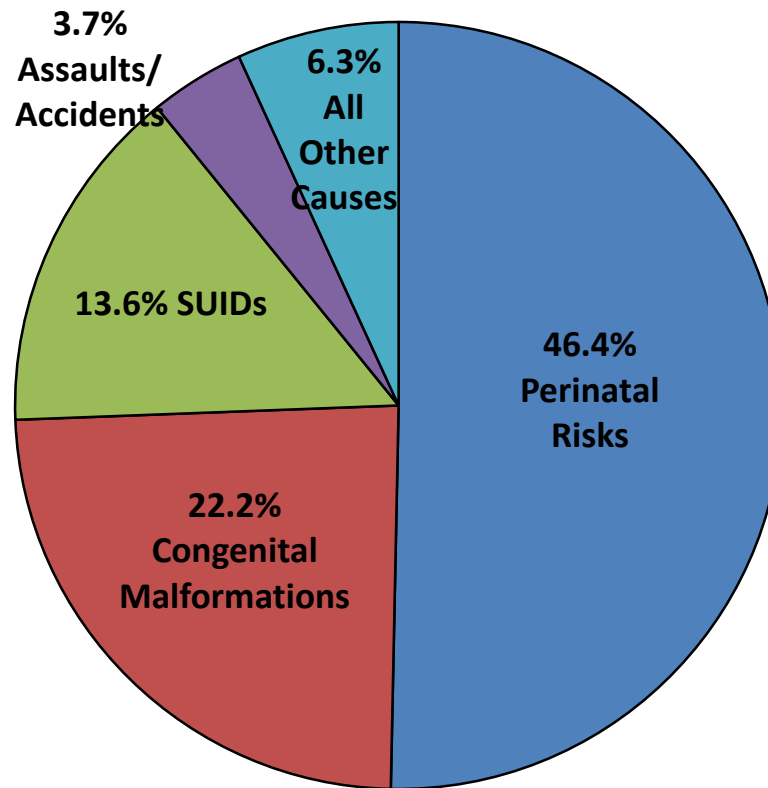
Shaded Area: Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality by Cause Indiana Residents, 2016

N = 623

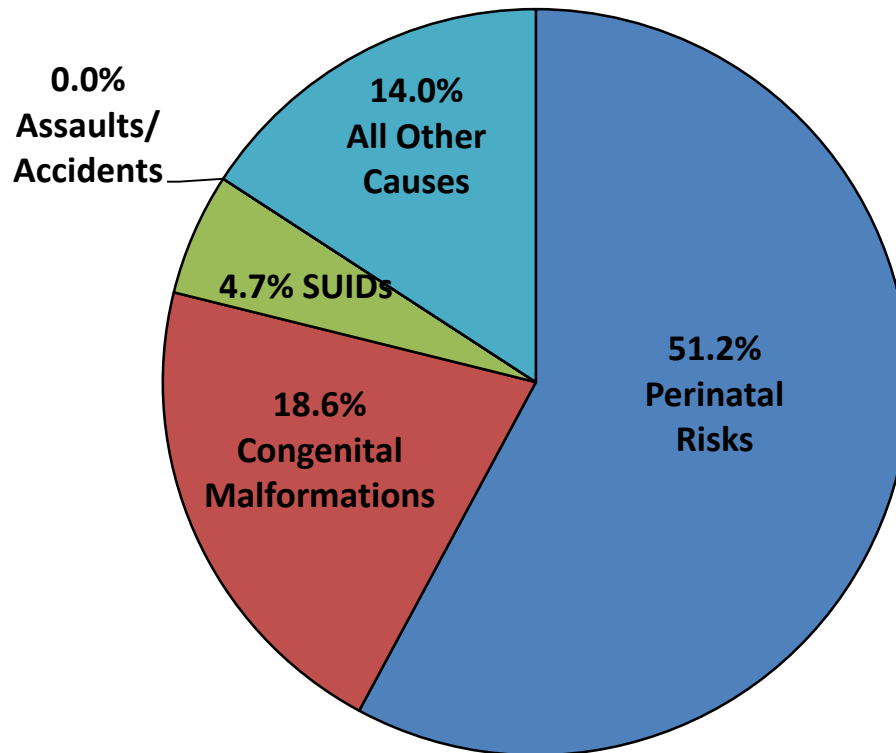


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infant Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). *For ICD-10 codes included in these categories, refer to Appendix A.*

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause Allen County Residents, 2016

**N = 43**

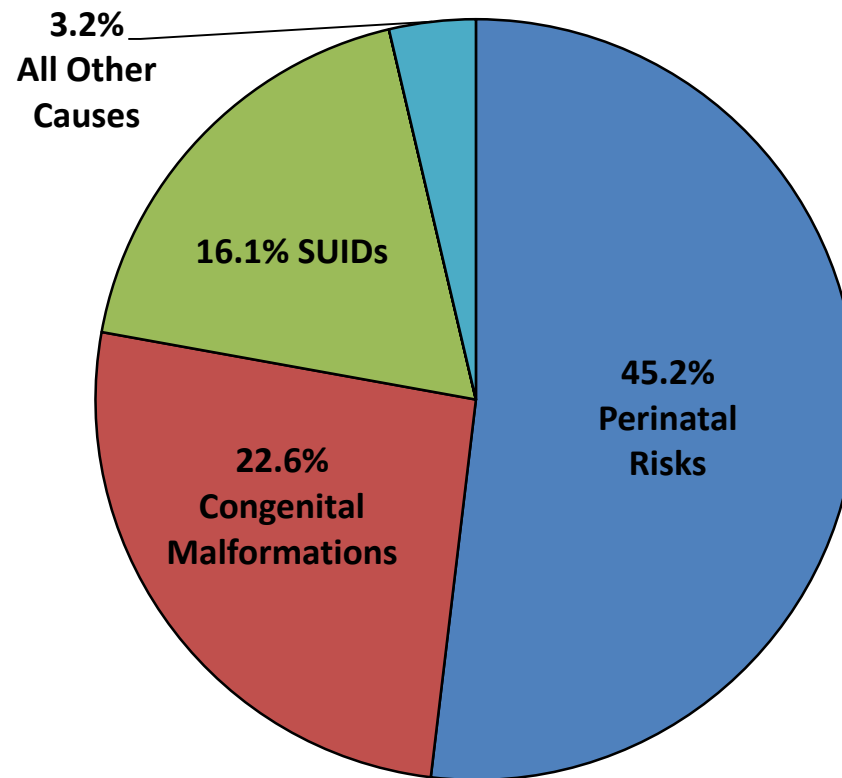


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infant Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). *For ICD-10 codes included in these categories, refer to Appendix A.*

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause Elkhart County Residents, 2016

**N = 31**

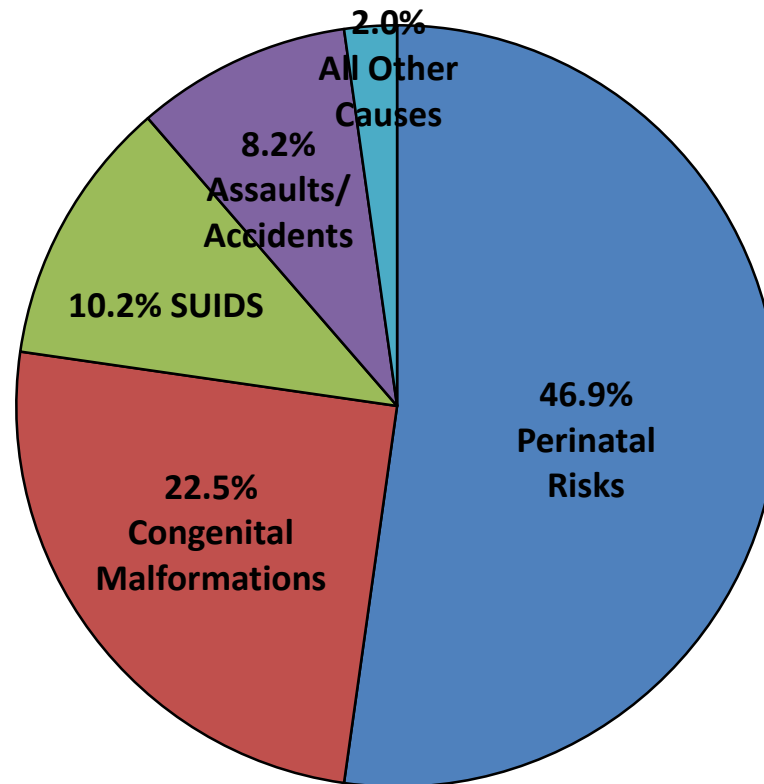


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infants Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). For ICD-10 codes included in these categories, refer to Appendix A.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause Lake County Residents, 2016

N = 49

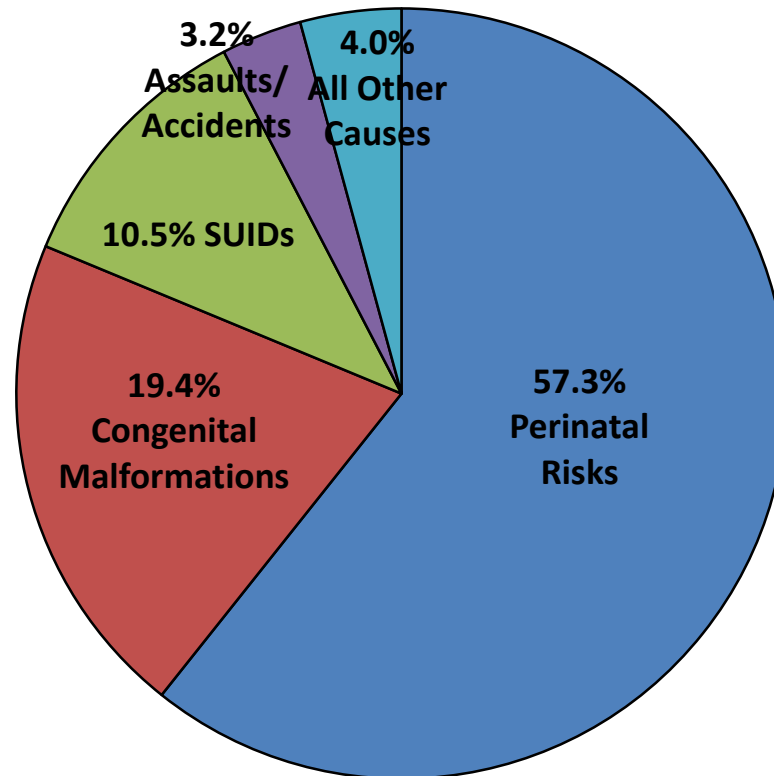


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infant Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). For ICD-10 codes included in these categories, refer to Appendix A.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause Marion County Residents, 2016

**N = 124**

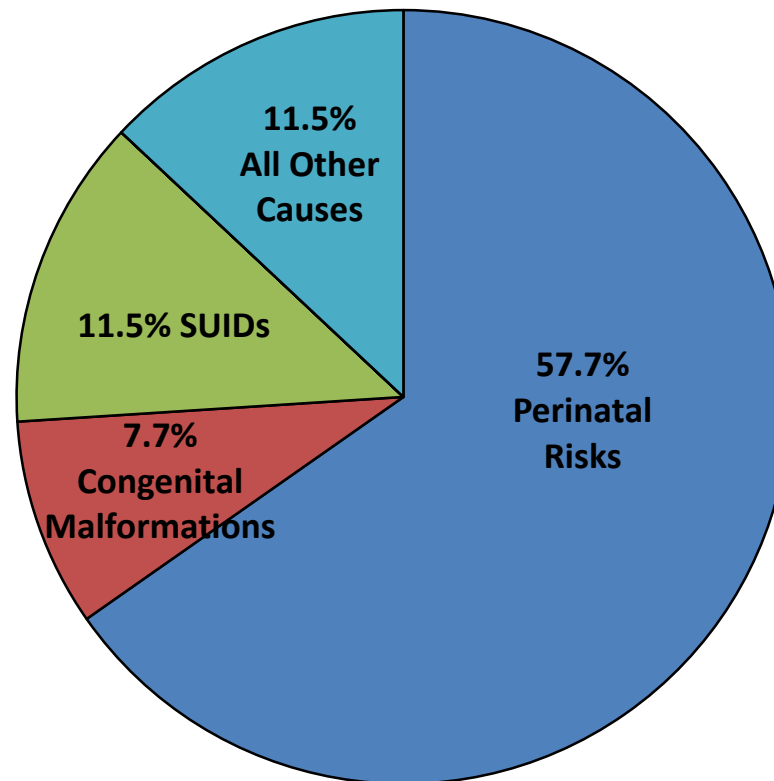


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infants Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). *For ICD-10 codes included in these categories, refer to Appendix A.*

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause St. Joseph County Residents, 2016

**N = 26**

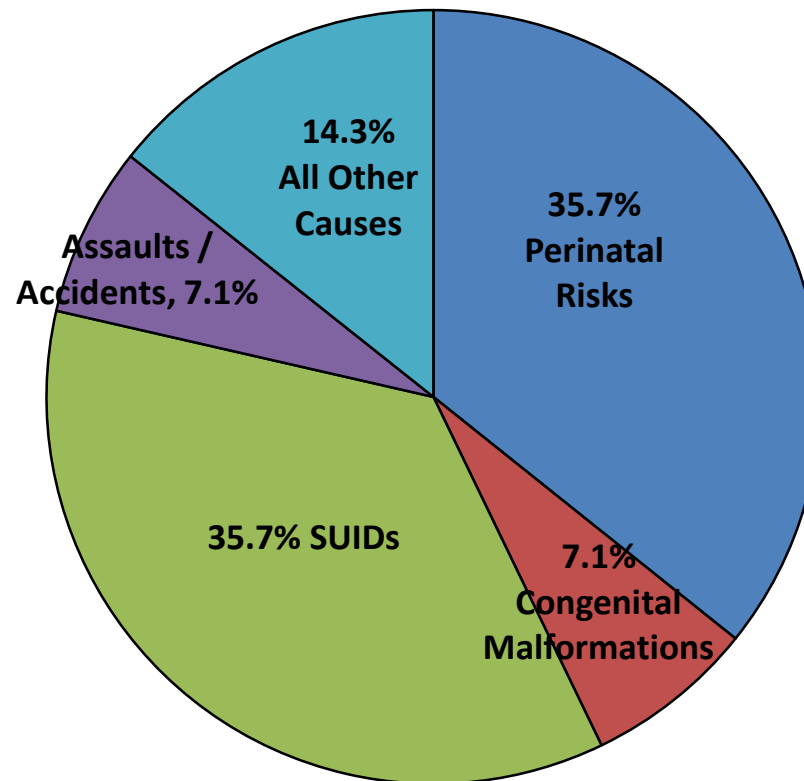


Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infant Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). *For ICD-10 codes included in these categories, refer to Appendix A.*

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Infant Mortality by Cause Vanderburgh County Residents, 2016

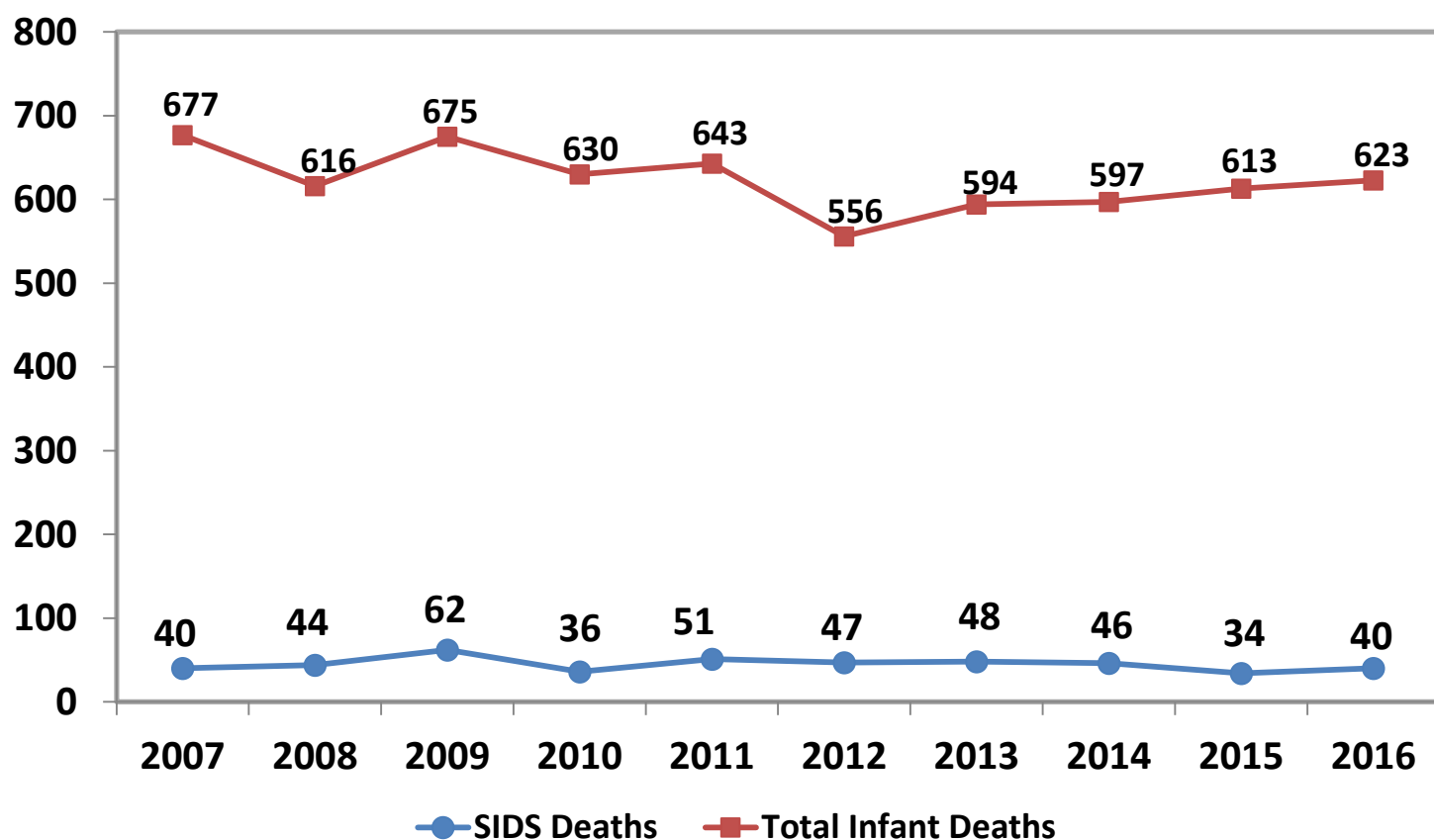
**N = 14**



Notes: Perinatal risks are certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.). Congenital malformations and anomalies are physical defects present at birth that result from genetics, through exposure of the fetus to malforming agents, or are of unknown origin. Sudden Unexpected Infant Deaths (SUIDs) typically include sleep related infant deaths and unexpected deaths of no known cause after investigation. Assaults and other accidents include deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.). For ICD-10 codes included in these categories, refer to Appendix A. Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018



## Number of SIDS<sup>^</sup> Deaths Indiana Residents, 2007 – 2016

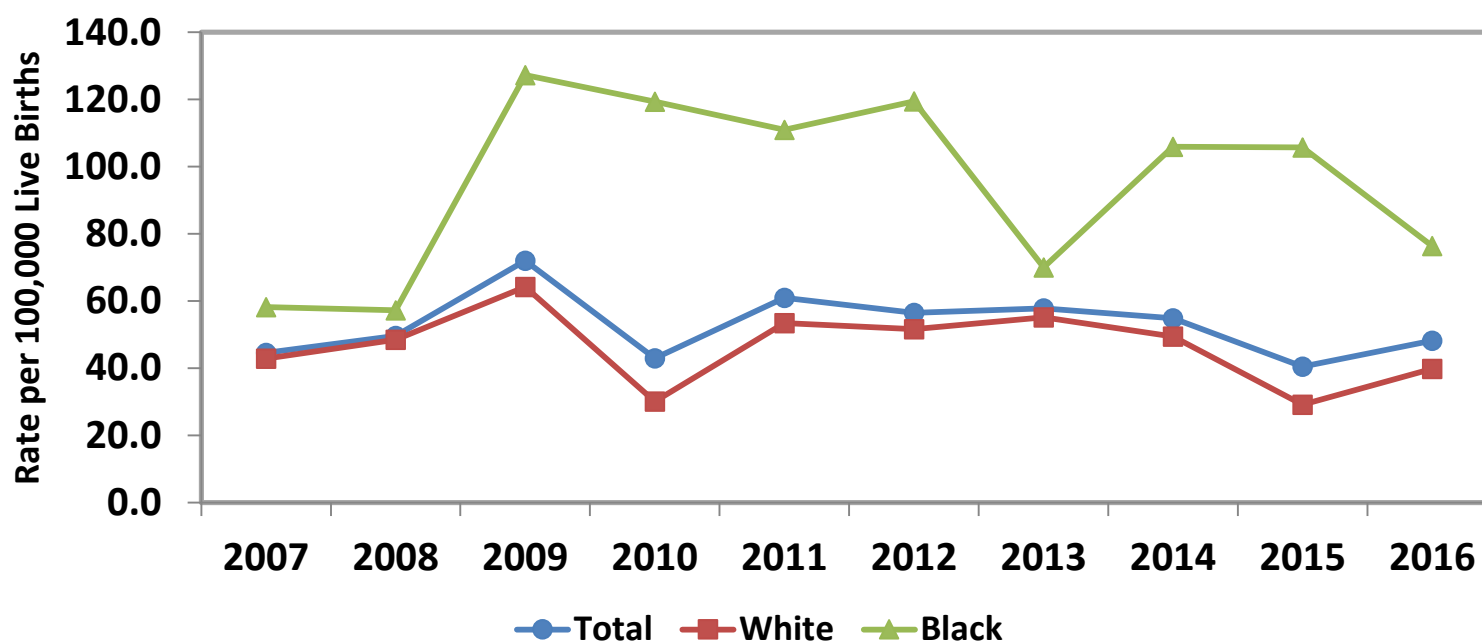


<sup>^</sup> Sudden Infant Death Syndrome (SIDS) ICD-10 Code R95

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## SIDS<sup>^</sup> Mortality Rates by Race Indiana Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	44.6	49.6	72.0	42.9	60.9	56.5	57.8	54.8	40.5	48.2
White	42.8	48.5	64.2	30.1	53.4	51.6	55.1	49.4	29.1	39.8
Black	58.2*	57.2*	127.3*	119.4*	111.0*	119.5*	70.0*	105.9*	105.7*	76.4*

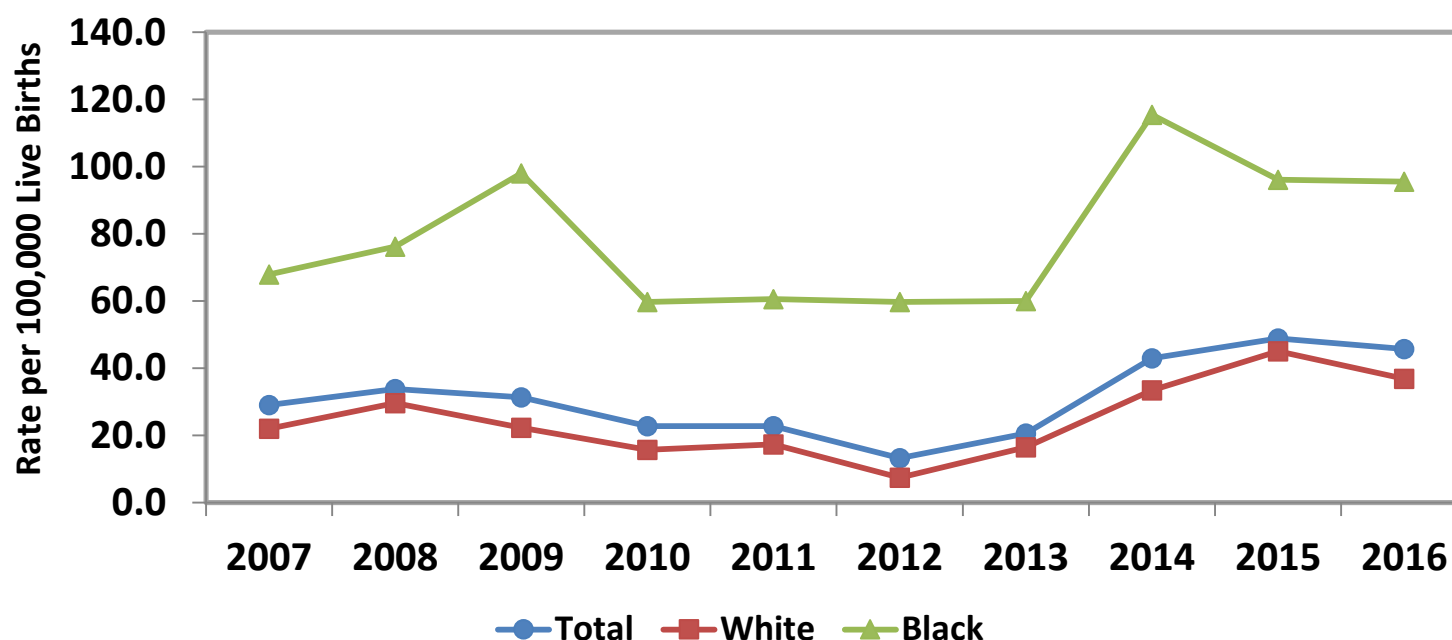
\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

<sup>^</sup> Sudden Infant Death Syndrome (SIDS) ICD-10 Code R95

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Suffocation<sup>^</sup> Mortality Rates by Race Indiana Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	29.0	33.8	31.3	22.7*	22.7*	13.2*	20.5*	42.9	48.8	45.7
<b>White</b>	22.0*	29.6	22.3*	15.7*	17.3*	7.4*	16.4*	33.4	45.0	36.8
<b>Black</b>	67.9*	76.2*	98.0*	59.7*	60.6*	59.7*	60.0*	115.5*	96.1*	95.5*

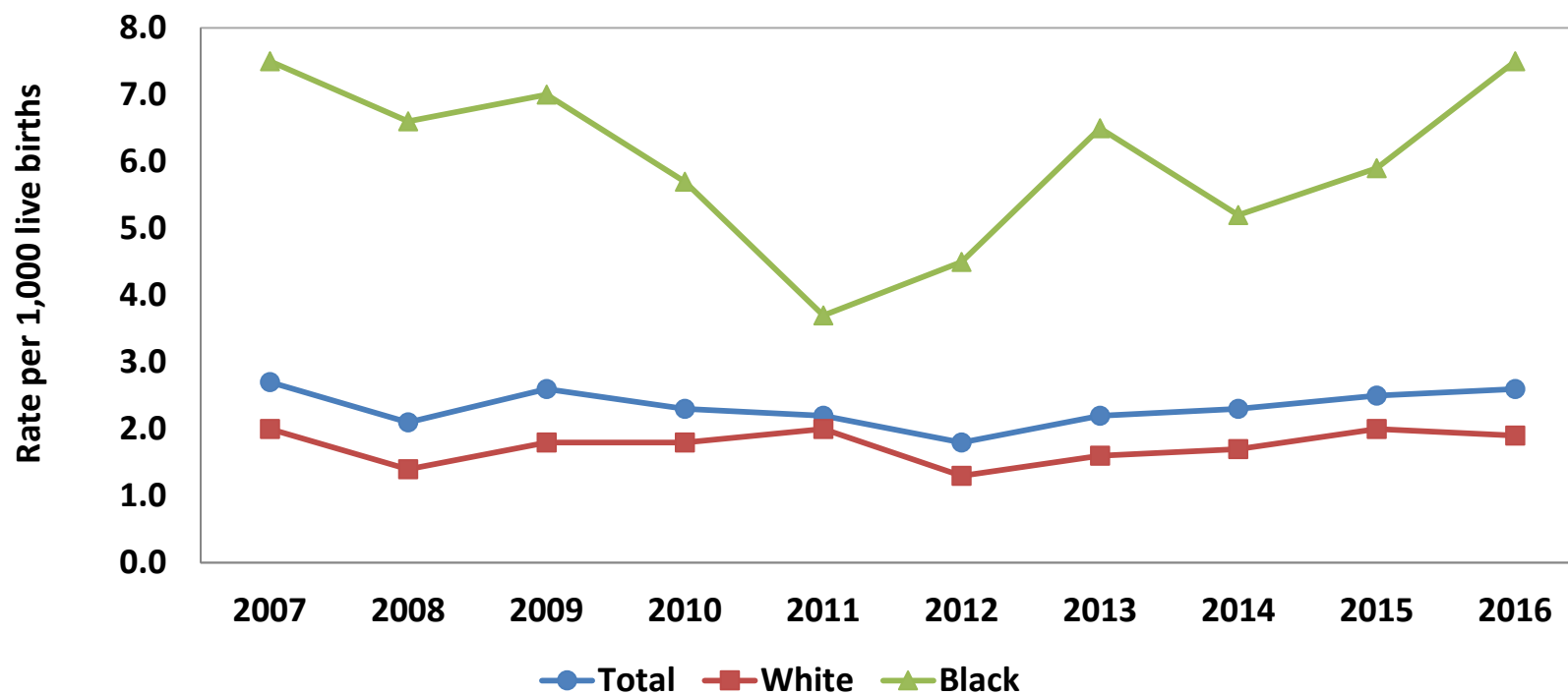
\* Numerator is less than 20, the rate is unstable. We do not recommend comparing unstable rates.

<sup>^</sup> Accidental Suffocation and Strangulation in Bed ICD-10 Code W75

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Preterm-Related Mortality\* Rates by Race Indiana Residents, 2007 – 2016

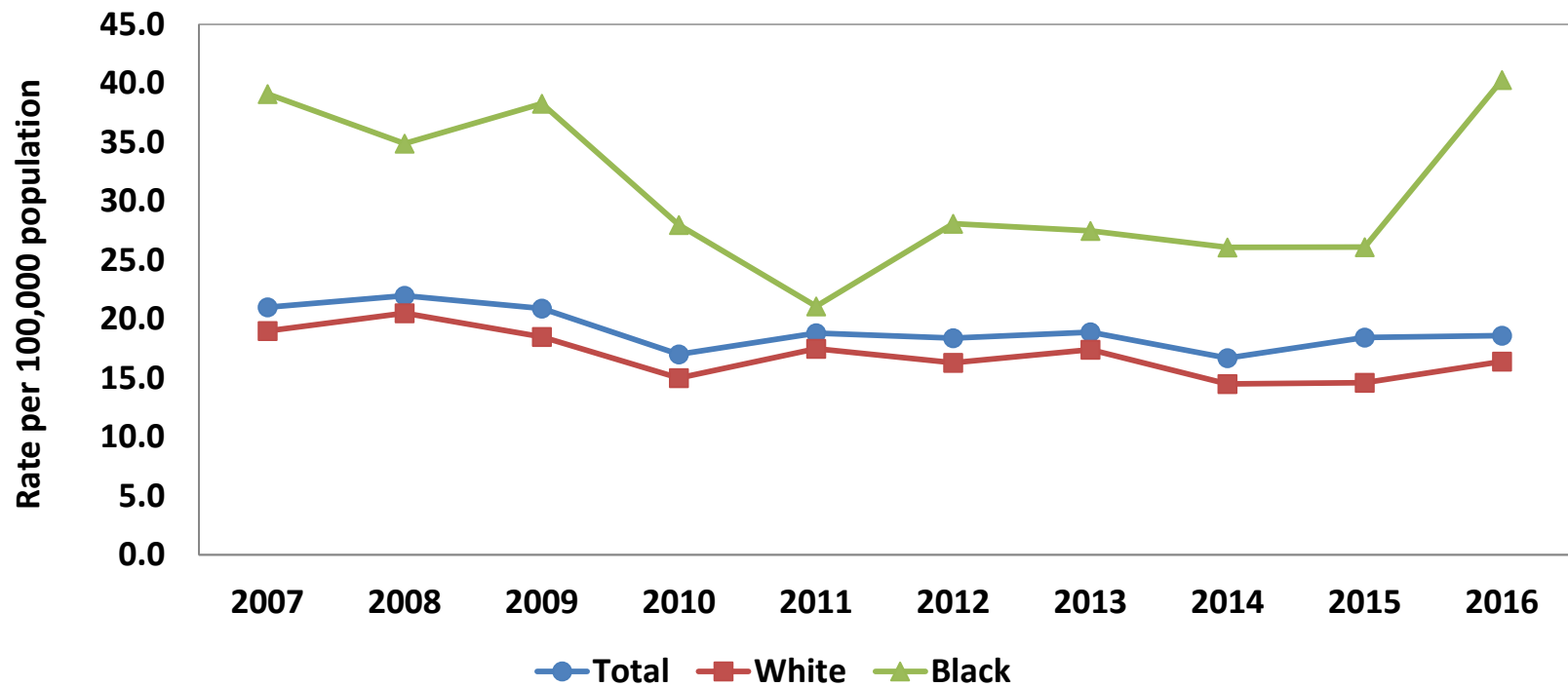


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.7	2.1	2.6	2.3	2.2	1.8	2.2	2.3	2.5	2.6
<b>White</b>	2.0	1.4	1.8	1.8	2.0	1.3	1.6	1.7	2.0	1.9
<b>Black</b>	7.5	6.6	7.0	5.7	3.7	4.5	6.5	5.2	5.9	7.5

\*Preterm-Related Mortality ICD-10 Codes K550, P000, P010, P011, P015, P020, P021, P027, P070–P073, P102, P220–229, P250–279, P280, P281, P360–369, P520–523, and P77

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

## Mortality Rates for Youth Ages 1-14 Years by Race Indiana Residents, 2007 – 2016

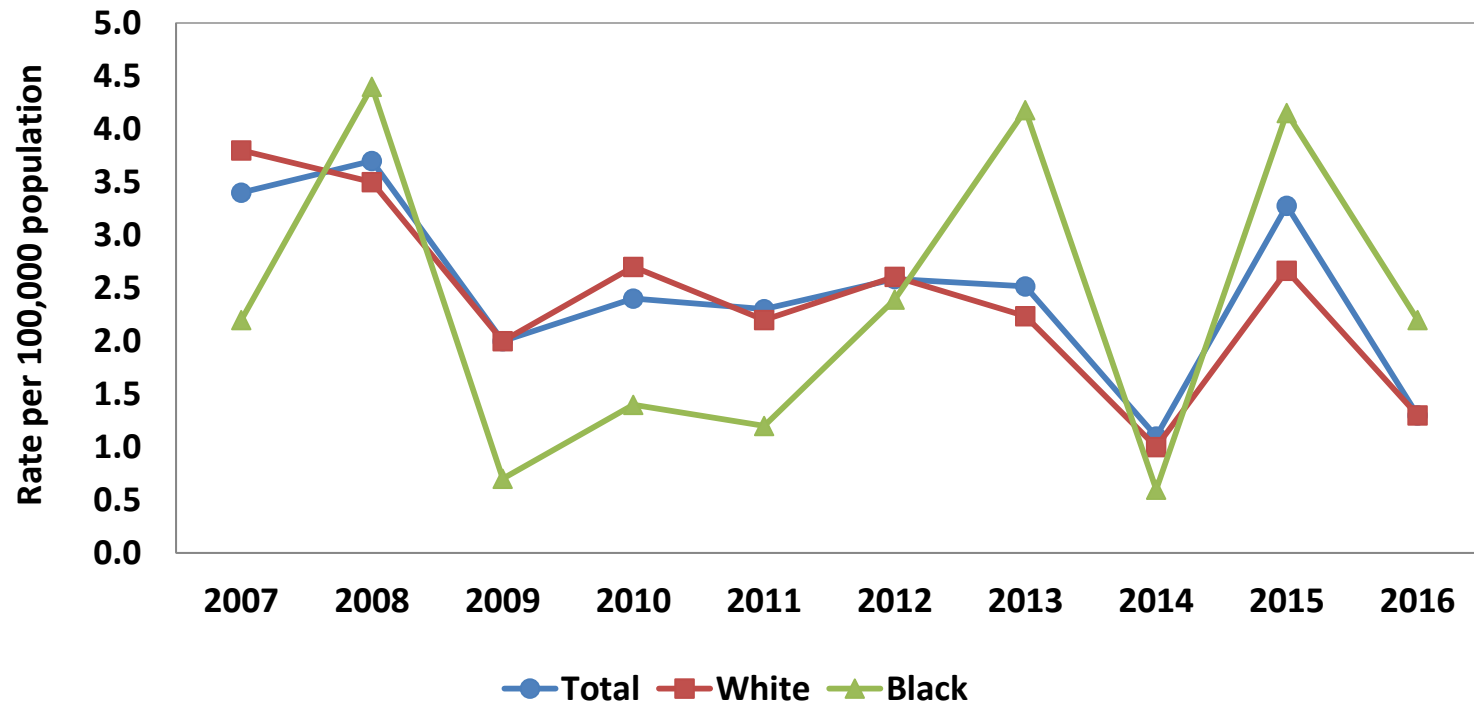


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	21.0	22.0	20.9	17.0	18.8	18.4	18.9	16.7	18.4	18.6
<b>White</b>	19.0	20.5	18.5	15.0	17.5	16.3	17.4	14.5	14.6	16.4
<b>Black</b>	39.1	34.9	38.3	28.0	21.1	28.1	27.5	26.1	26.1	40.3

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Motor Vehicle Injury Mortality Rates for Youth Ages 1-14 Years by Race Indiana Residents, 2007 – 2016



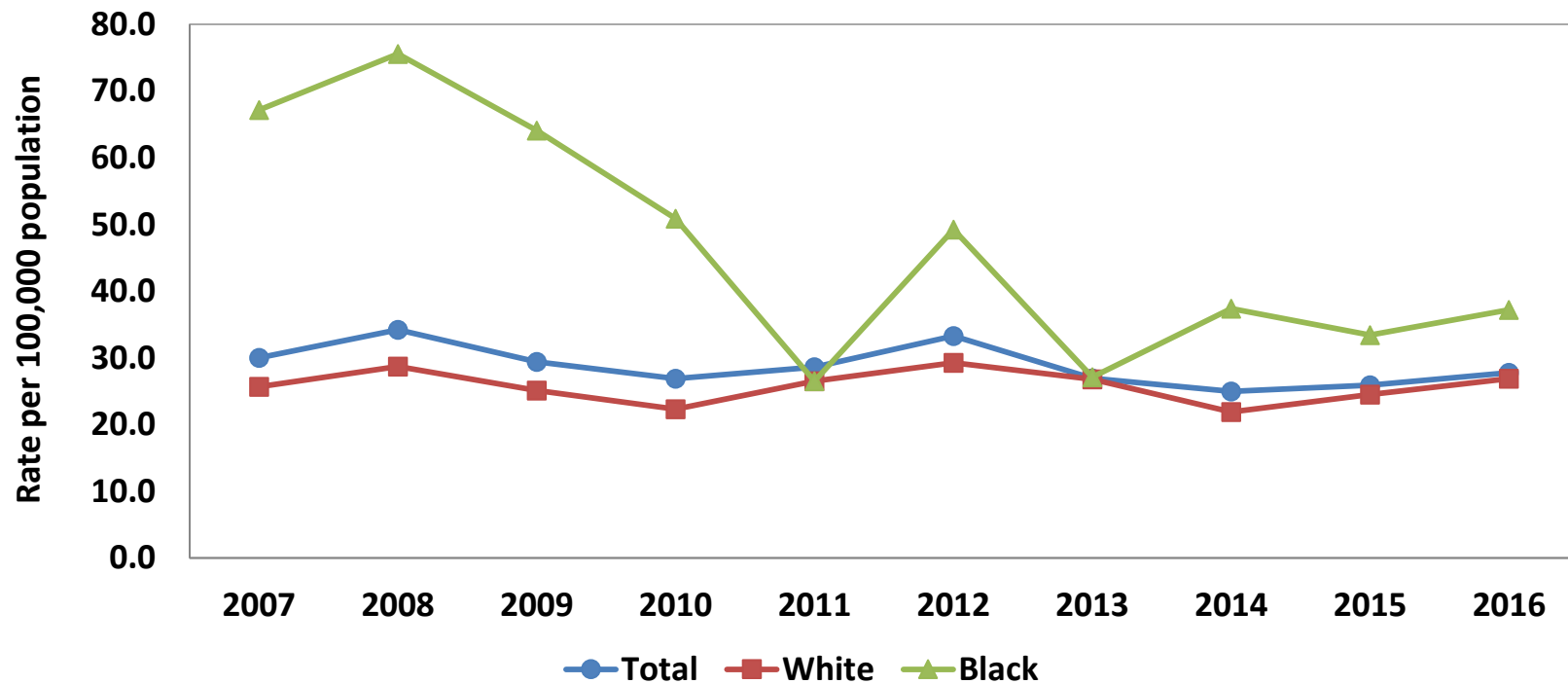
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	3.4	3.7	2.0	2.4	2.3	2.6	2.5	1.1*	3.3	1.3*
White	3.8	3.5	2.0	2.7	2.2	2.6	2.2	1.0*	2.7	1.3*
Black	2.2*	4.4*	0.7*	1.4*	1.2*	2.4*	4.2*	0.6*	4.2*	2.2*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Mortality Rates for Youth Ages 1-4 Years by Race Indiana Residents, 2007 – 2016



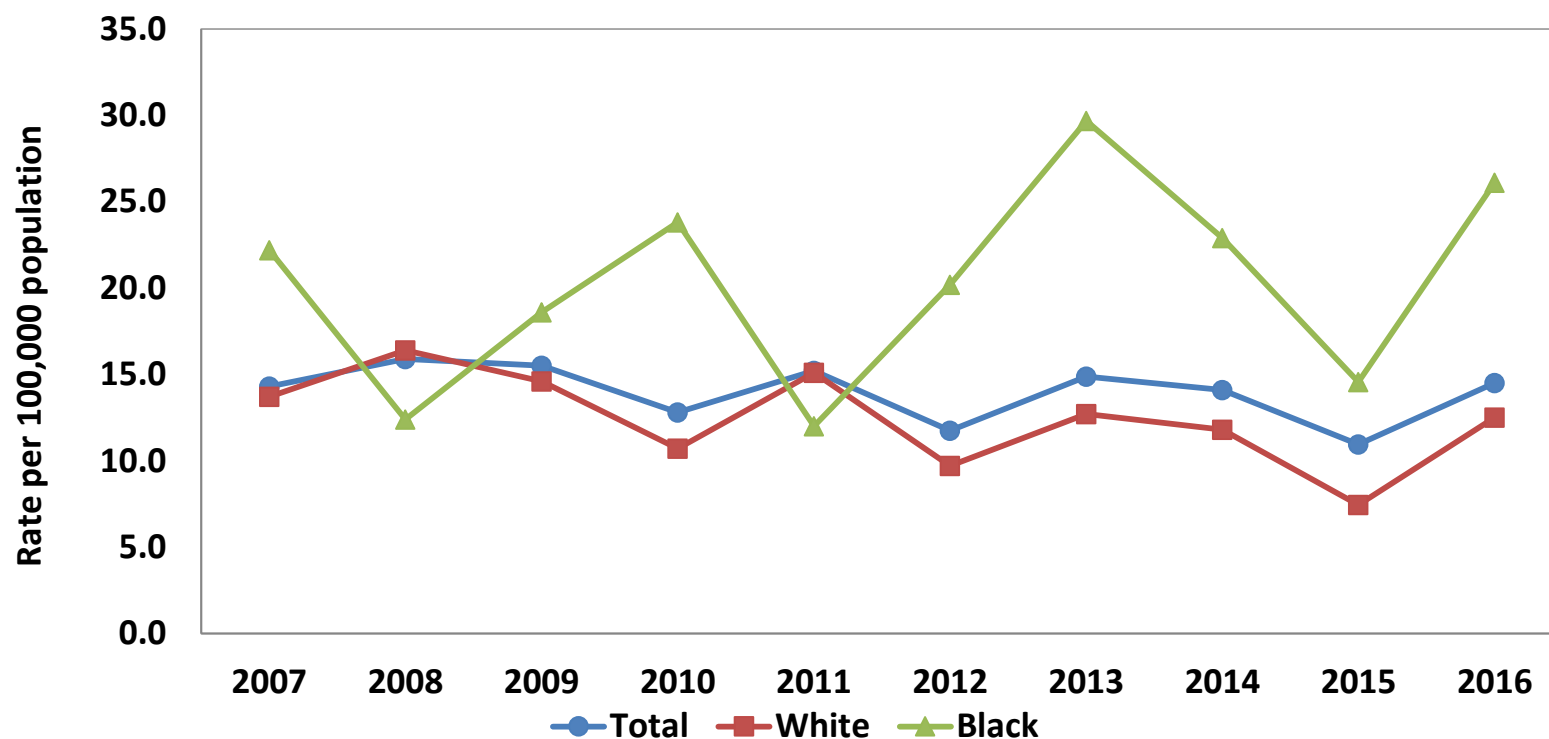
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	30.0	34.2	29.4	26.9	28.6	33.3	26.9	25.0	25.9	27.8
White	25.7	28.7	25.1	22.3	26.5	29.3	26.8	21.9	24.5	26.9
Black	67.2	75.6	64.1	50.9	26.5*	49.2	27.1*	37.4*	33.4*	37.2*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Mortality Rates for Youth Ages 5-9 Years by Race Indiana Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	14.3	15.9	15.5	12.8	15.2	11.7	14.9	14.1	11.0	14.5
White	13.7	16.4	14.6	10.7	15.1	9.7	12.7	11.8	7.4	12.5
Black	22.2*	12.4*	18.6*	23.8*	12.0*	20.2*	29.7*	22.9*	14.6*	26.1*

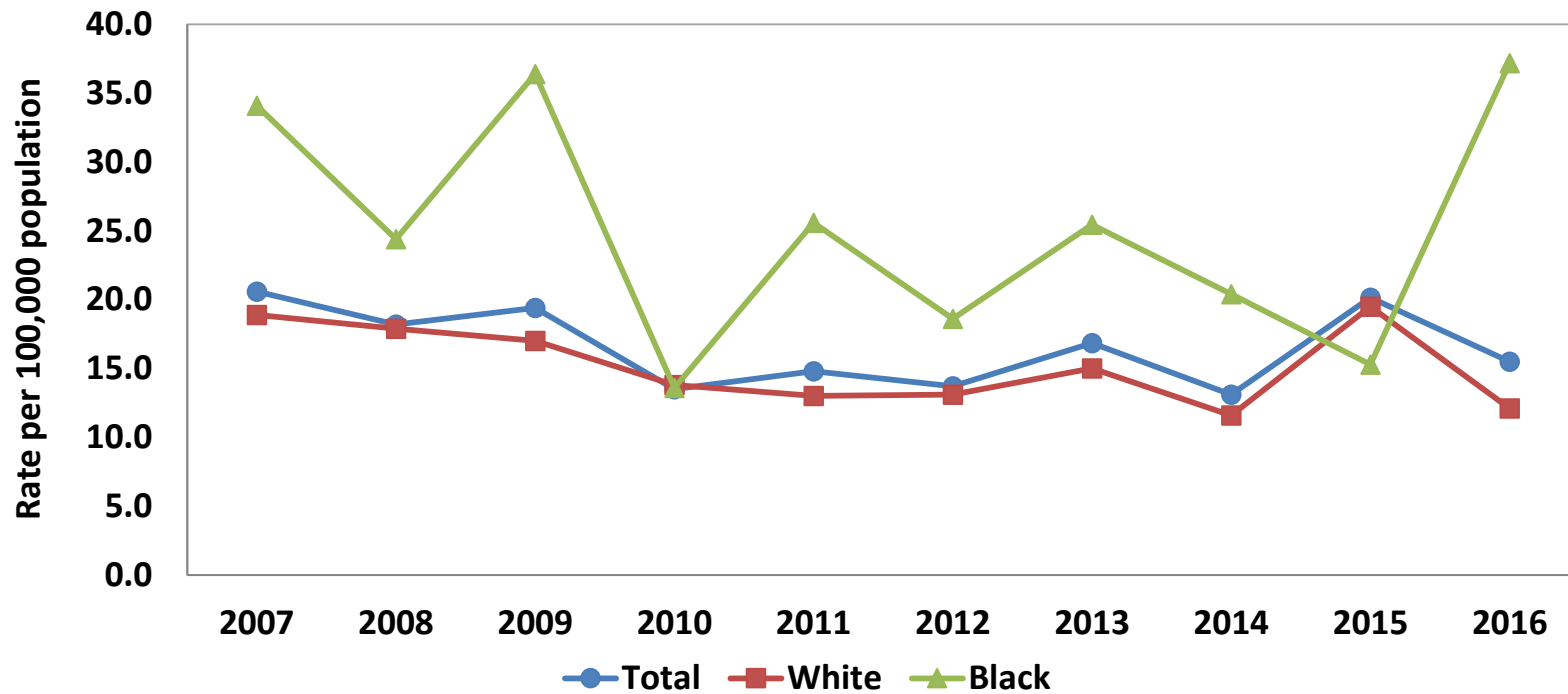
\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database



## Mortality Rates for Youth Ages 10-14 Years by Race Indiana Residents, 2007 – 2016



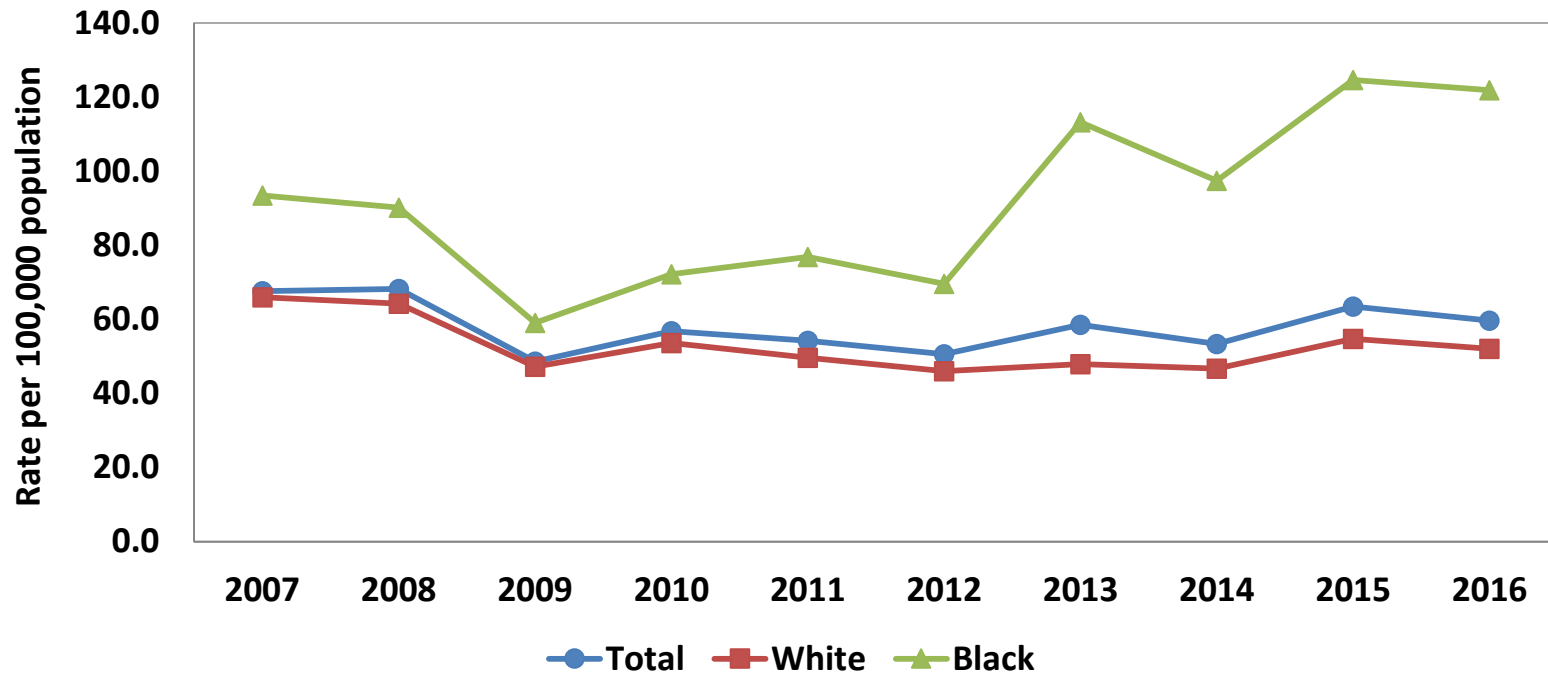
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	20.6	18.2	19.4	13.5	14.8	13.7	16.8	13.1	20.1	15.5
White	18.9	17.9	17.0	13.8	13.0	13.1	15.0	11.6	19.5	12.1
Black	34.1*	24.4*	36.4*	13.6*	25.6*	18.6*	25.5*	20.4*	15.3*	37.2

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Mortality Rates for Youth Ages 15-19 Years by Race Indiana Residents, 2007 – 2016

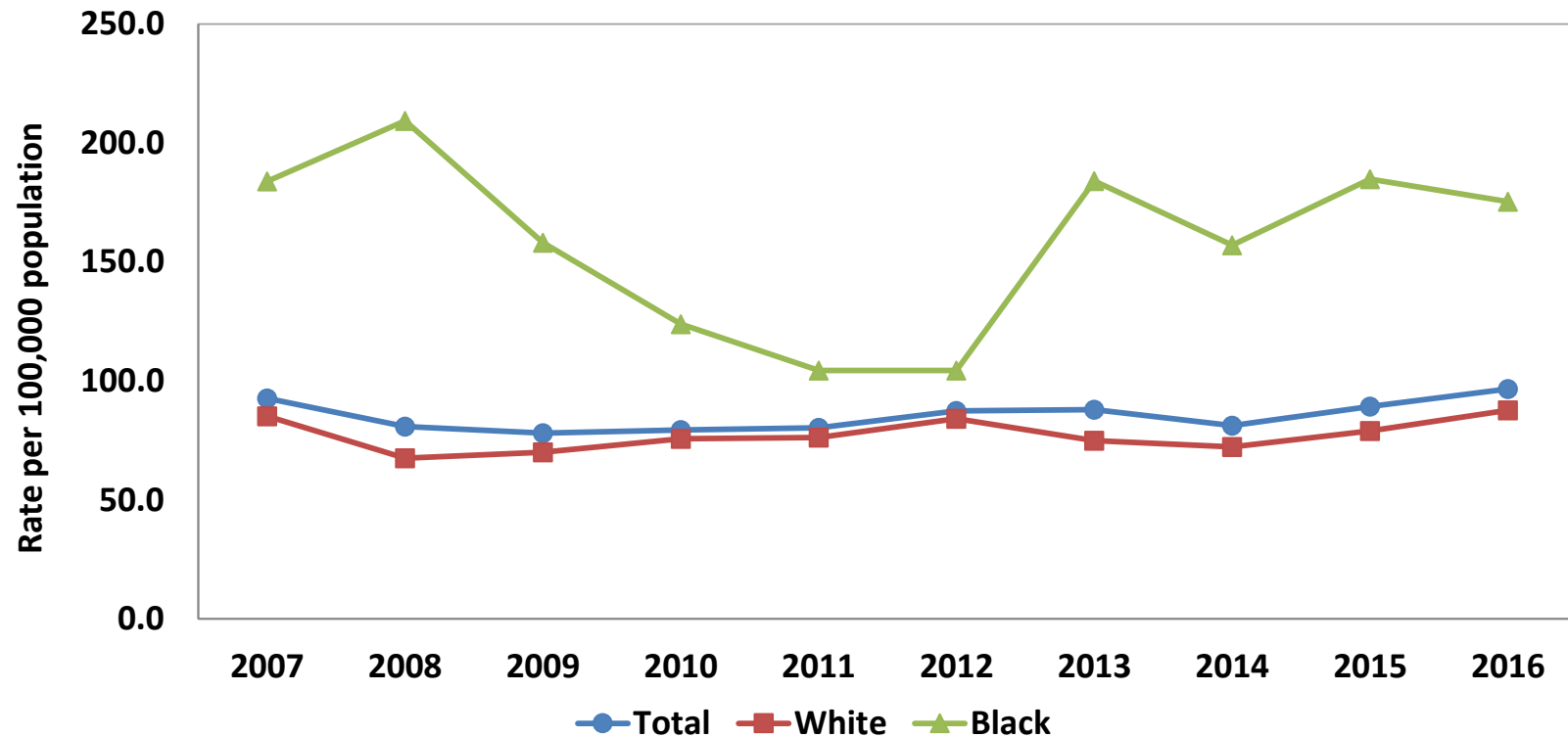


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	67.6	68.2	48.6	56.8	54.2	50.6	58.5	53.4	63.5	59.7
White	66.0	64.3	47.2	53.6	49.7	46.1	48.0	46.7	54.8	52.1
Black	93.5	90.2	59.1	72.2	76.9	69.6	113.3	97.4	124.6	121.9

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Mortality Rates for Young Adults Ages 20-21 Years by Race Indiana Residents, 2007 – 2016

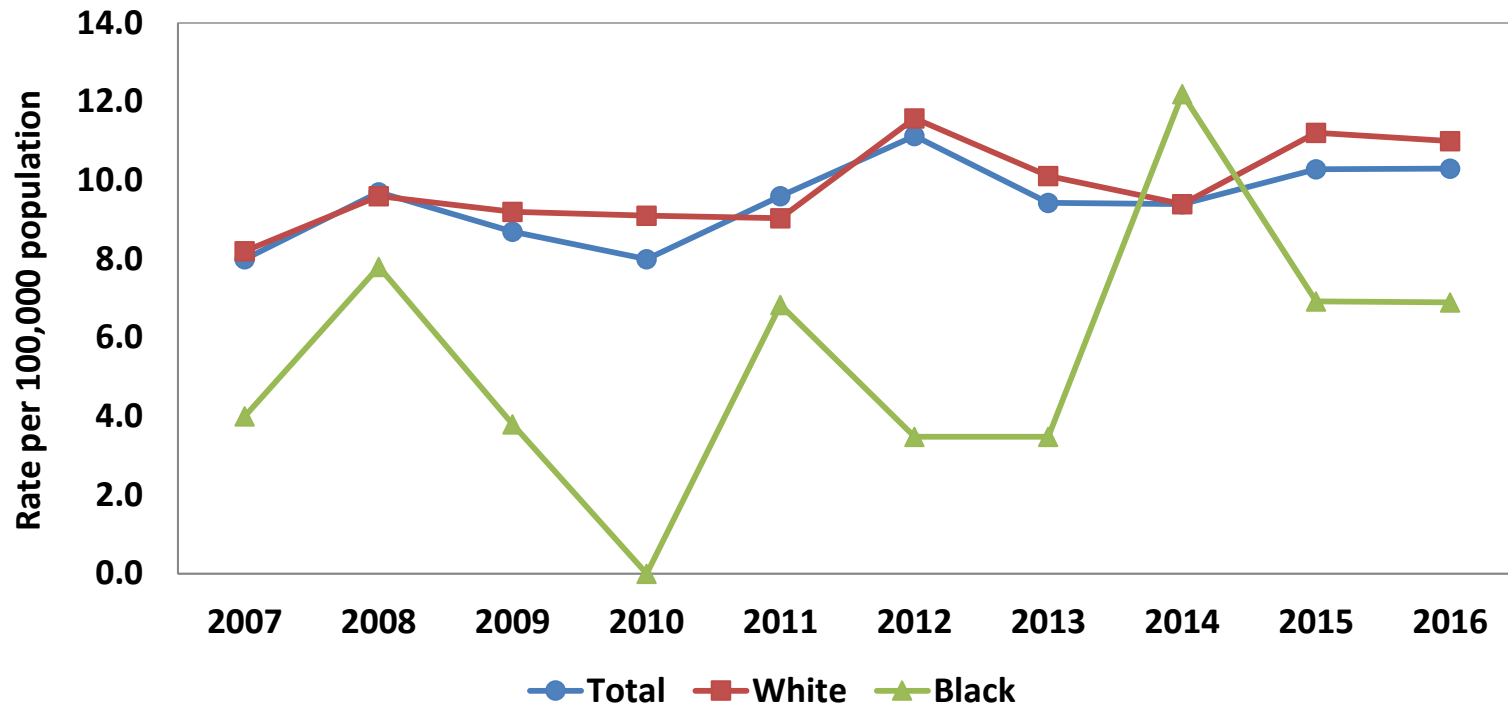


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	92.6	80.8	78.0	79.3	80.3	87.4	87.9	81.2	89.2	96.6
White	85.2	67.5	70.0	75.7	76.2	84.1	74.9	72.2	79.0	87.6
Black	183.9	209.3	158.1	123.8	104.4	104.3	184.1	157.0	184.8	175.4

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Suicide Mortality Rates for Youth Ages 15-19 Years by Race Indiana Residents, 2007– 2016



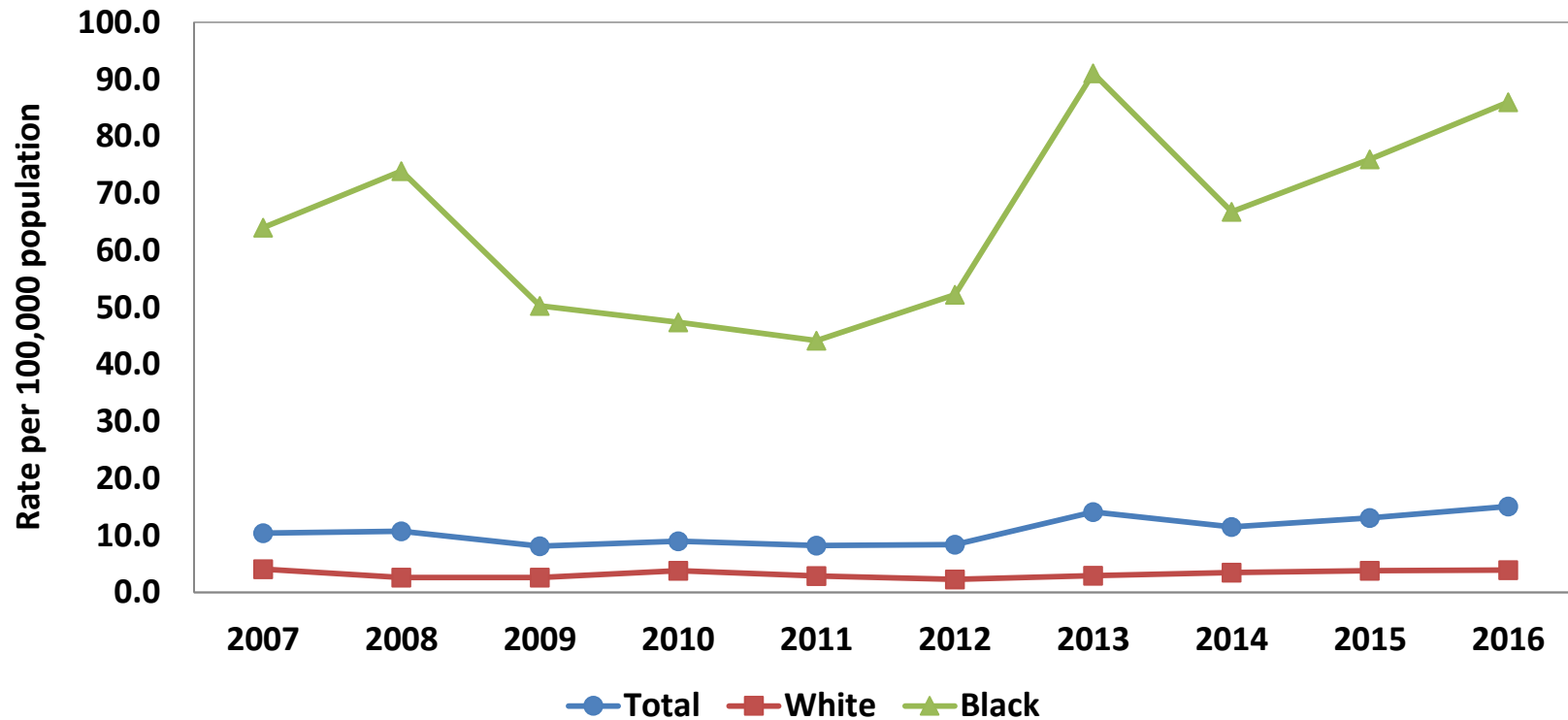
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	8.0	9.7	8.7	8.0	9.6	11.1	9.4	9.4	10.3	10.3
White	8.2	9.6	9.2	9.1	9.0	11.6	10.1	9.4	11.2	11.0
Black	4.0*	7.8*	3.8*	0.0*	6.8*	3.5*	3.5*	12.2*	6.9*	6.9*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Homicide Mortality Rates for Ages 15-24 Years by Race Indiana Residents, 2007 – 2016

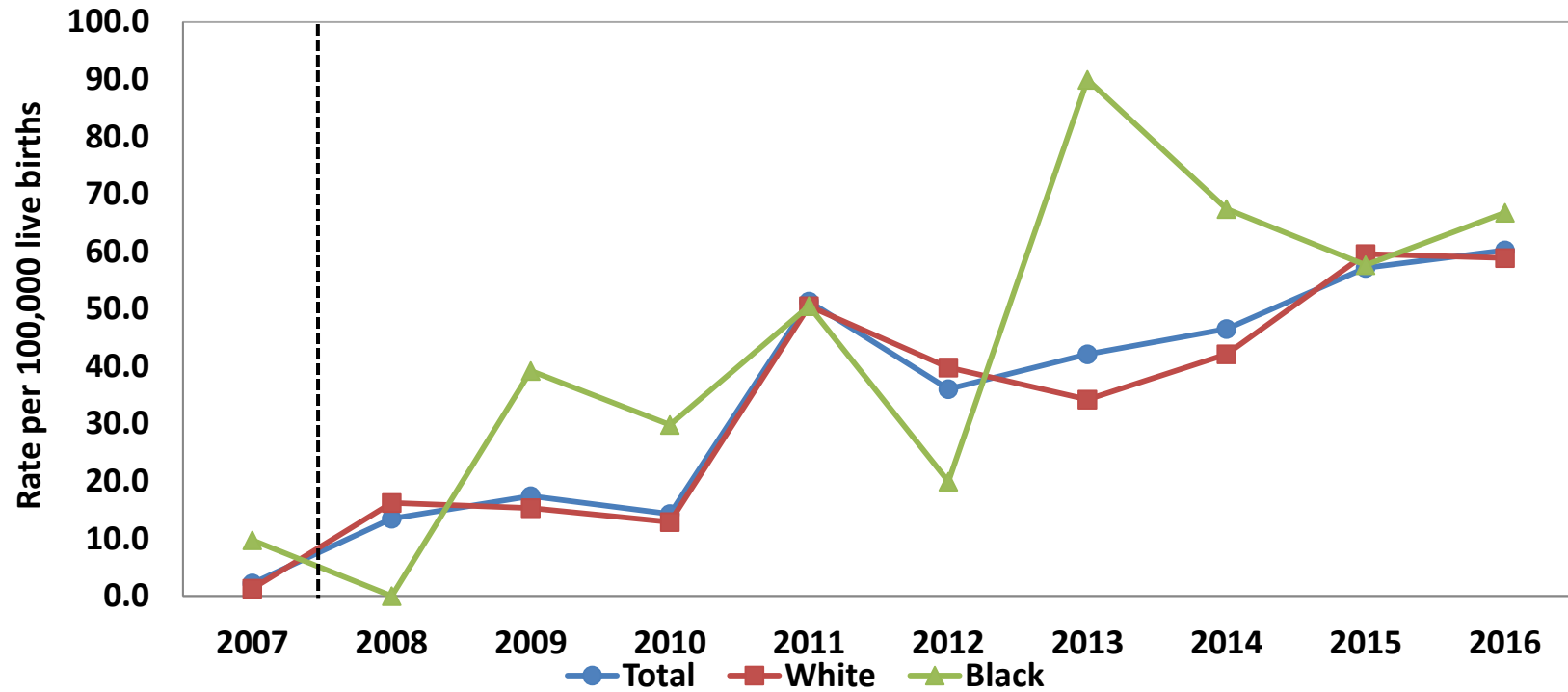


	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	10.4	10.7	8.1	9.0	8.2	8.4	14.1	11.5	13.1	15.1
White	4.1	2.6	2.6	3.8	2.9	2.3	2.9	3.5	3.8	3.9
Black	64.0	73.9	50.3	47.4	44.2	52.2	91.1	66.8	76.0	86.0

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Sources: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team; CDC WONDER Online Database

## Maternal Mortality Rates by Race Indiana Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	2.2*	13.5*	17.4*	14.3*	51.3	36.0	42.1	46.5	57.1	60.2
White	1.3*	16.2*	15.3*	12.9*	50.5	39.8	34.2	42.1	59.6	58.9
Black	9.7*	0.0*	39.2*	29.8*	50.5*	19.9*	89.9*	67.4*	57.6*	66.8*

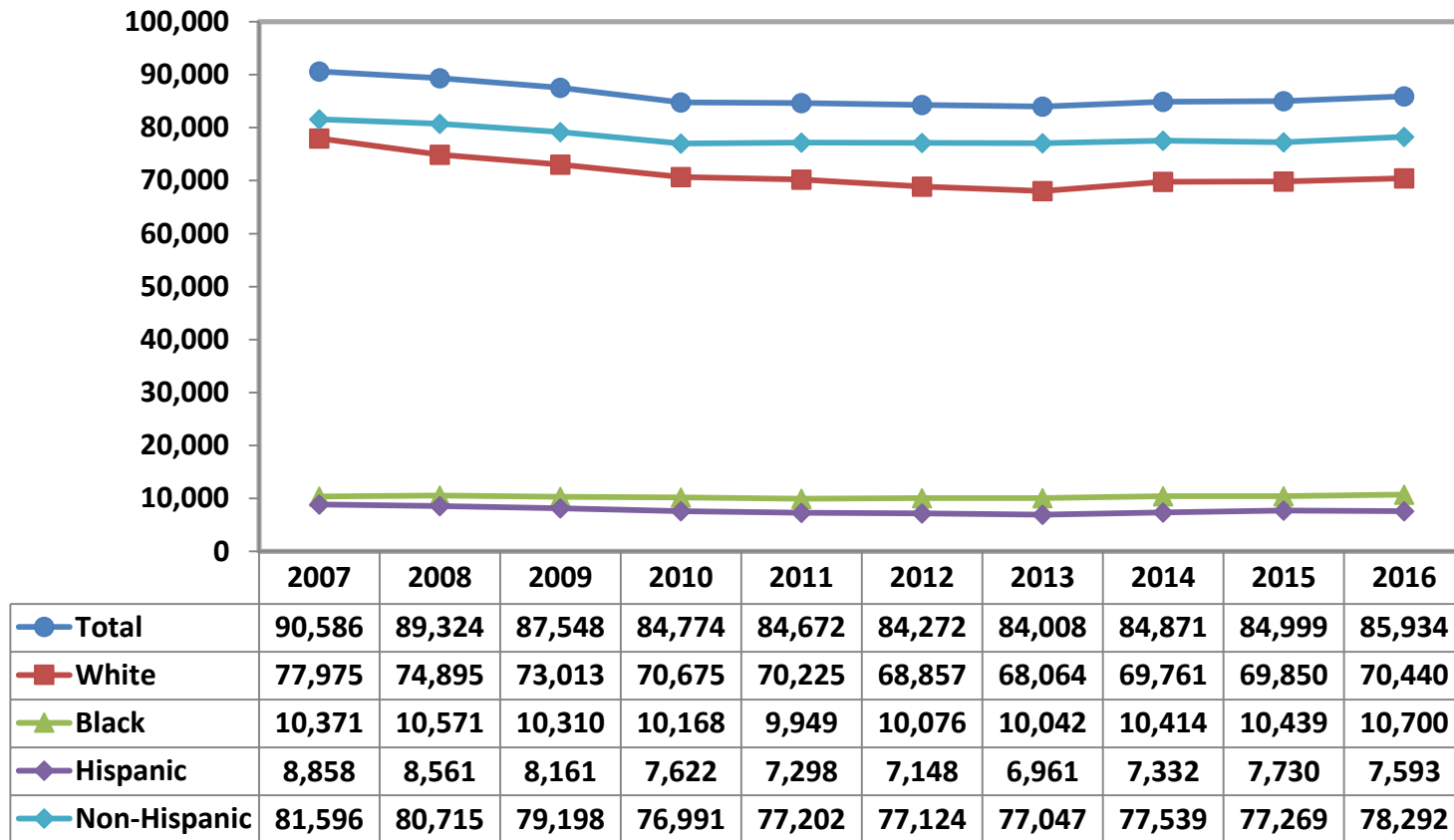
\*Numerator is less than 20, and the rate is unstable.

Note: Because of death certificate revisions in 2008, maternal mortality data for 2008 and later are not comparable with data from prior years. Please see the Preface for more detailed information.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Number of Occurrent Live Births\* by Race and Ethnicity Indiana Residents, 2007 – 2016



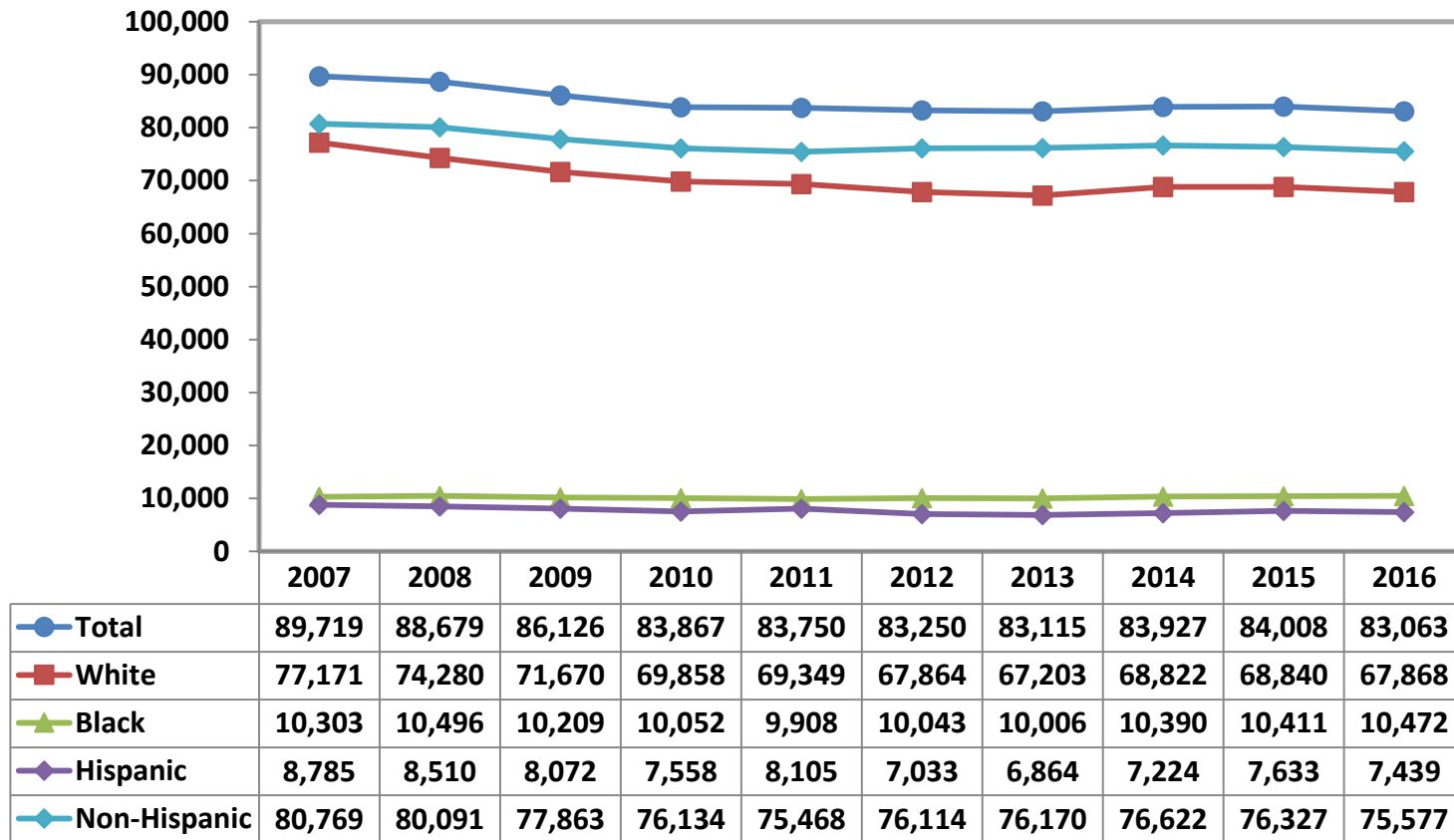
\* Live births occurring in Indiana regardless of mother's state of residence.

Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Number of Resident Live Births\* by Race and Ethnicity Indiana Residents, 2007 – 2016



\* Live births to Indiana residents regardless of state where mother gave birth.

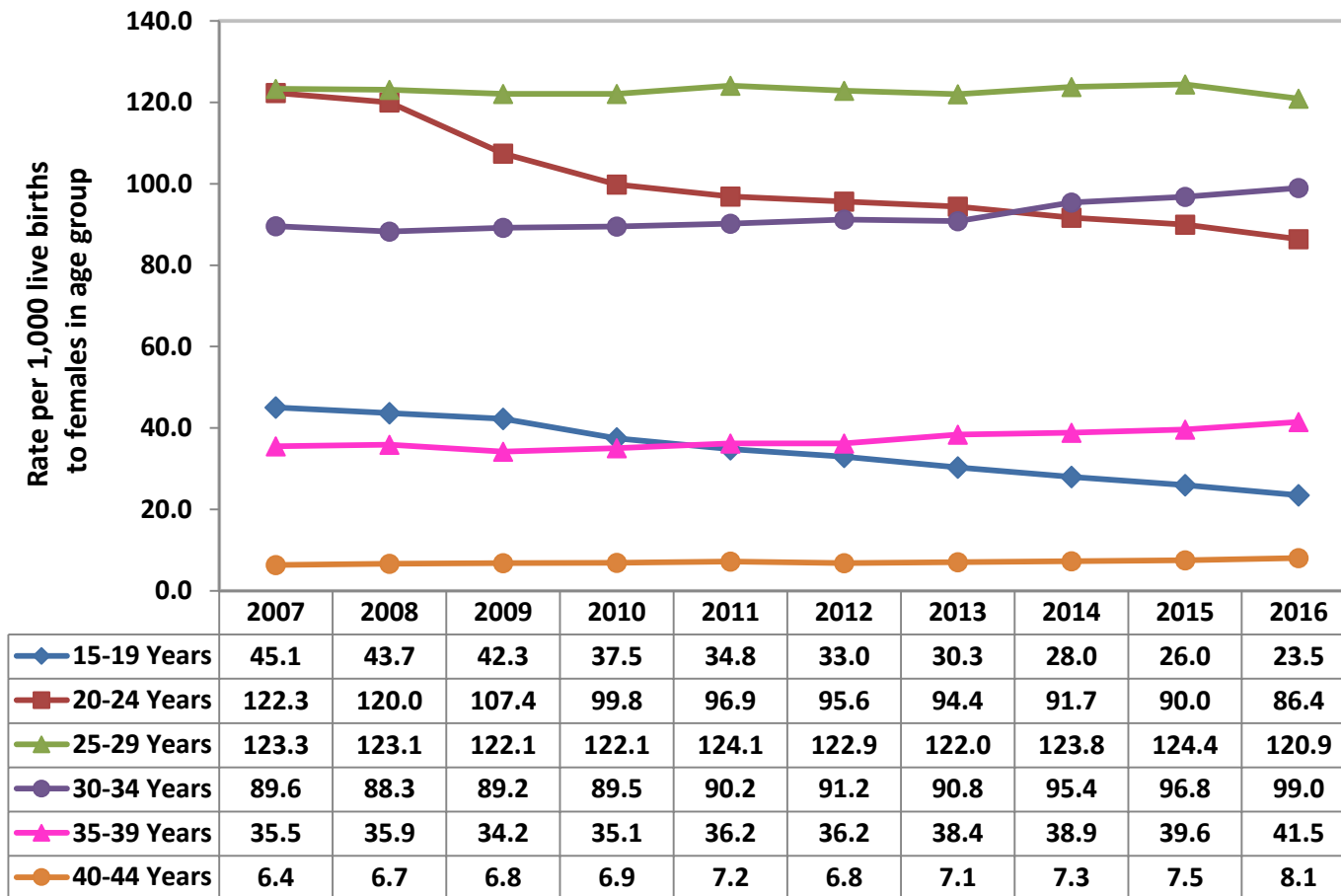
Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



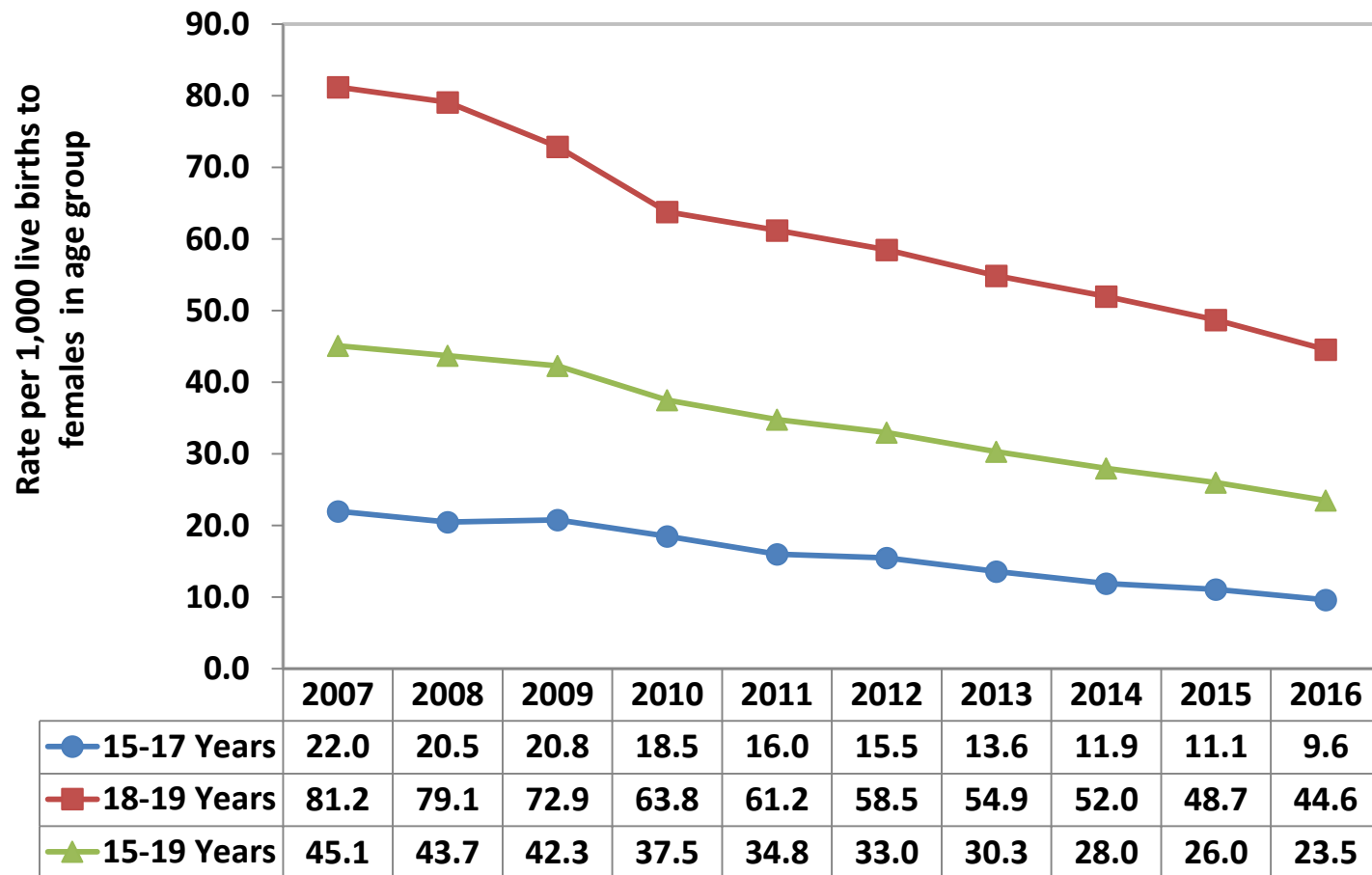
## Age-Specific Birth Rates by Age of Mother Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

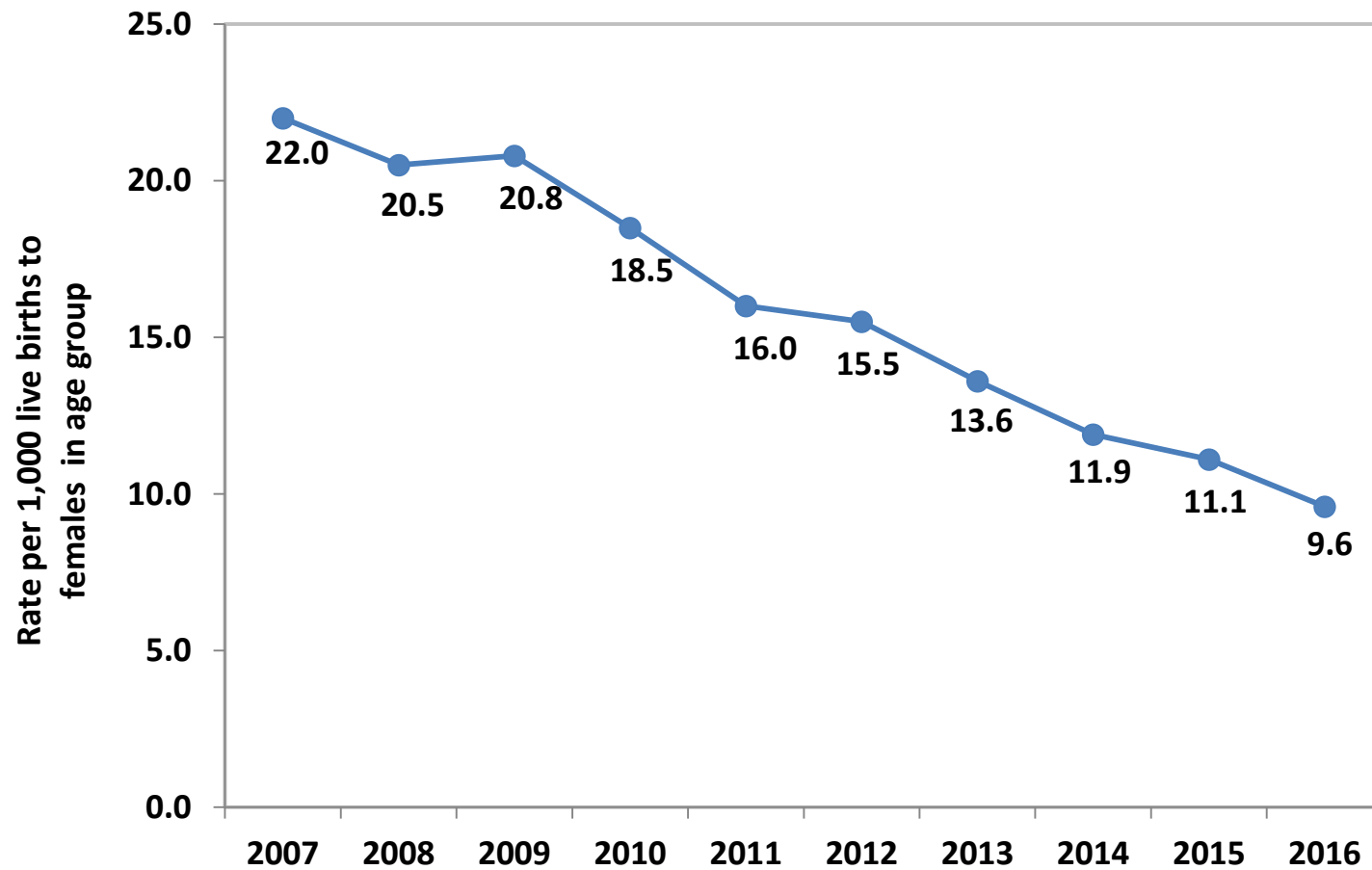
## Age-Specific Birth Rates for Teen Mothers Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

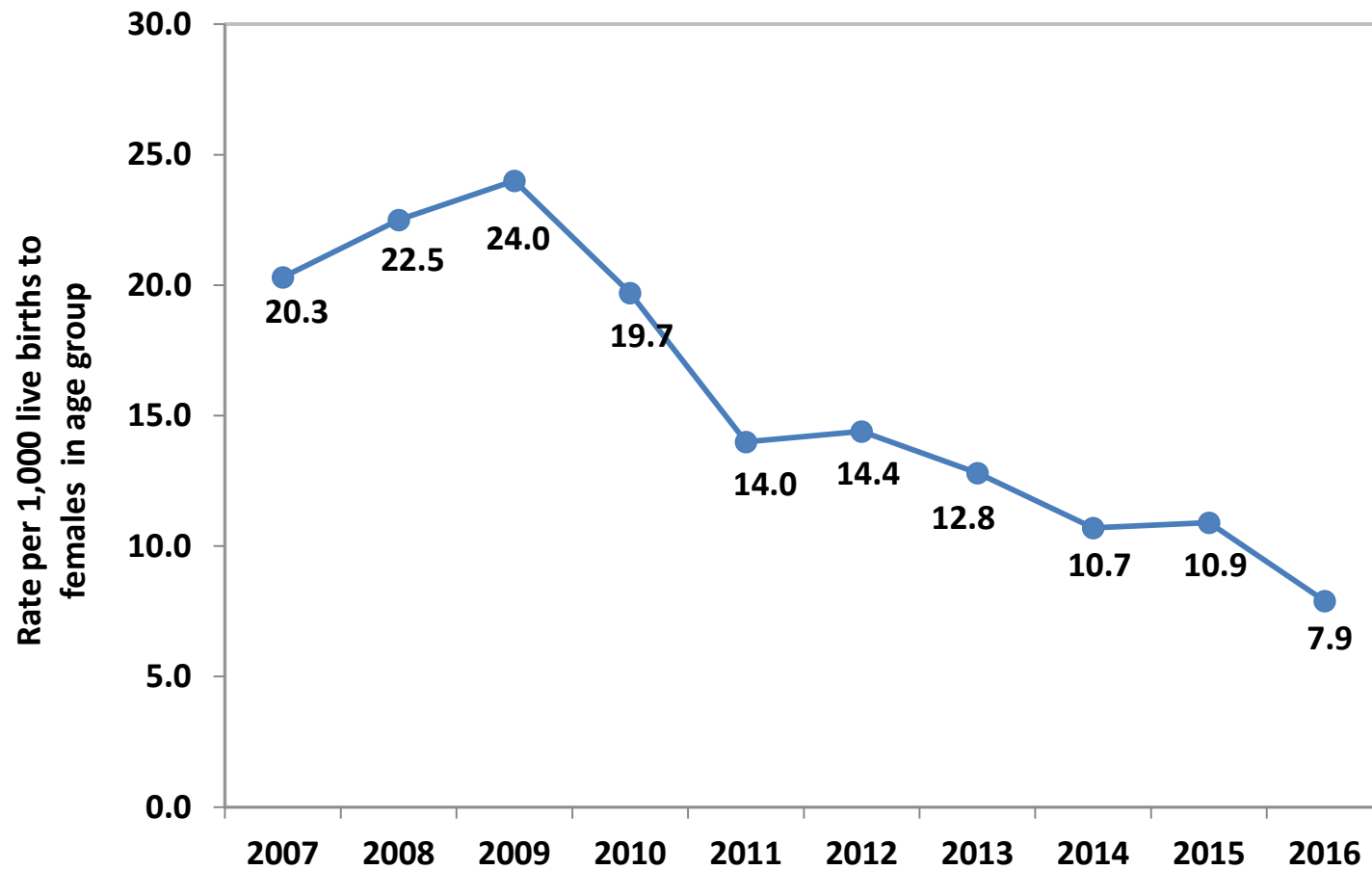
## Age-Specific Birth Rates for Ages 15-17 Years Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

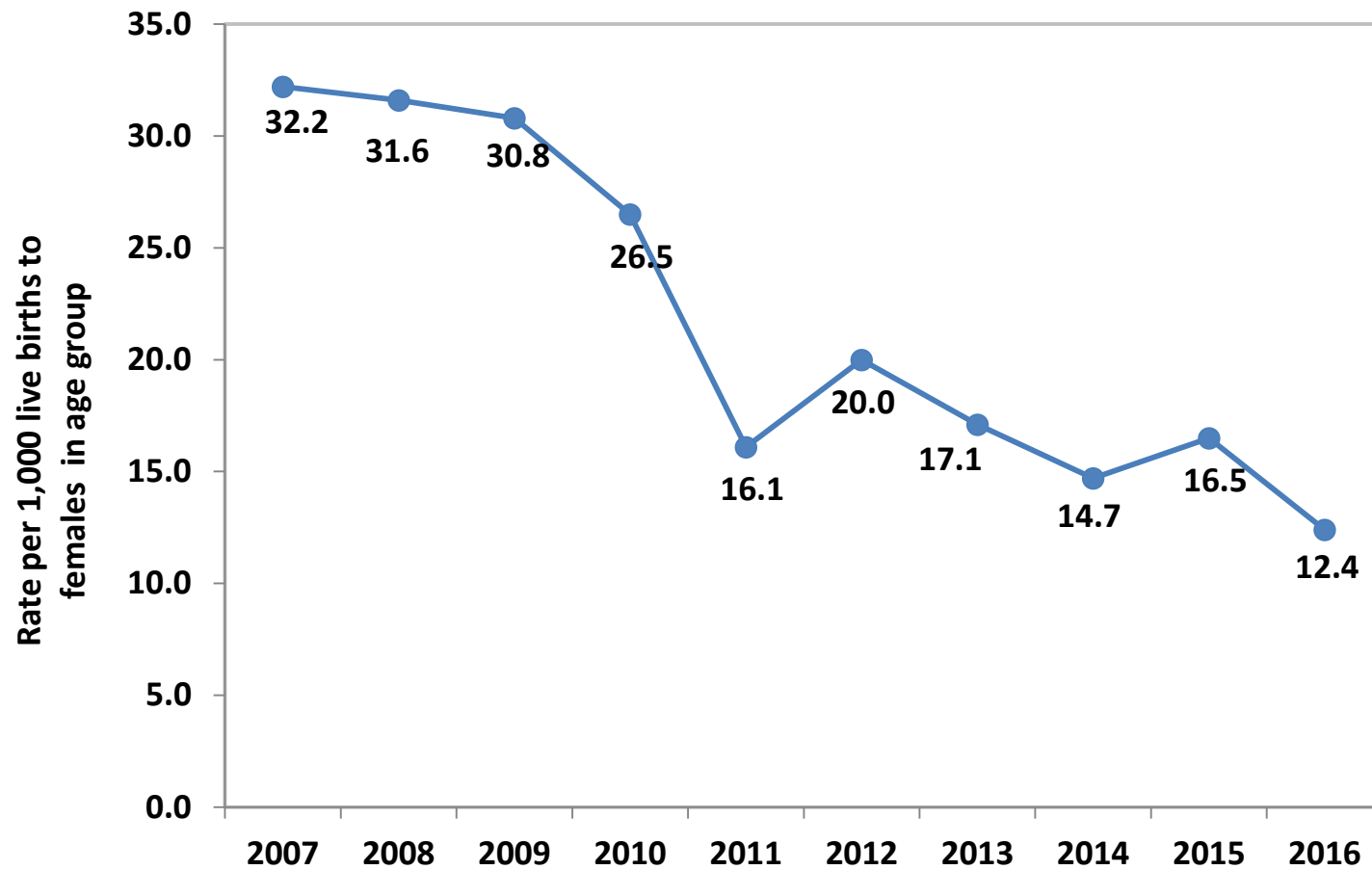
## Age-Specific Birth Rates for Ages 15-17 Years Allen County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

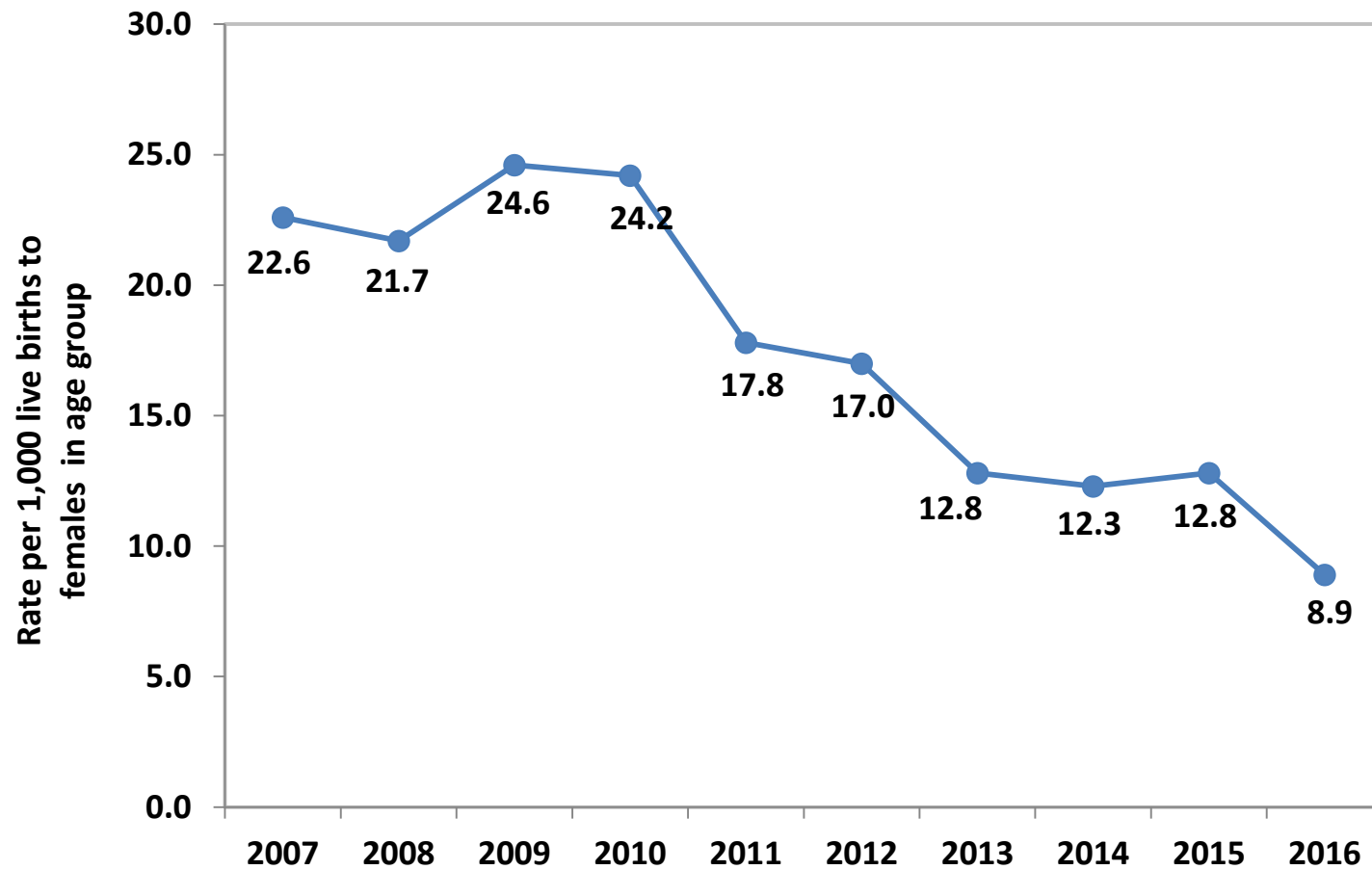
## Age-Specific Birth Rates for Ages 15-17 Years Elkhart County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

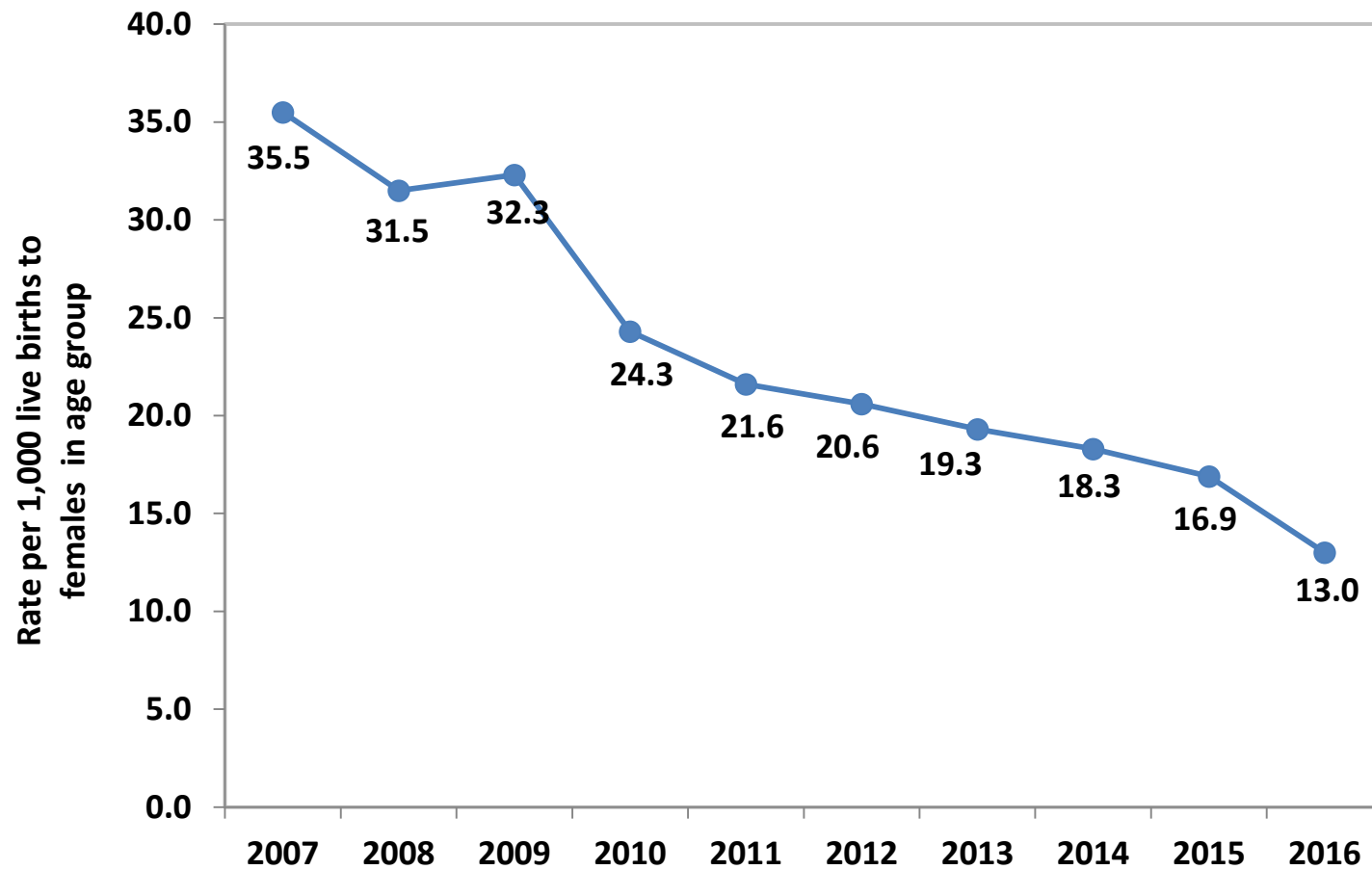
## Age-Specific Birth Rates for Ages 15-17 Years Lake County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

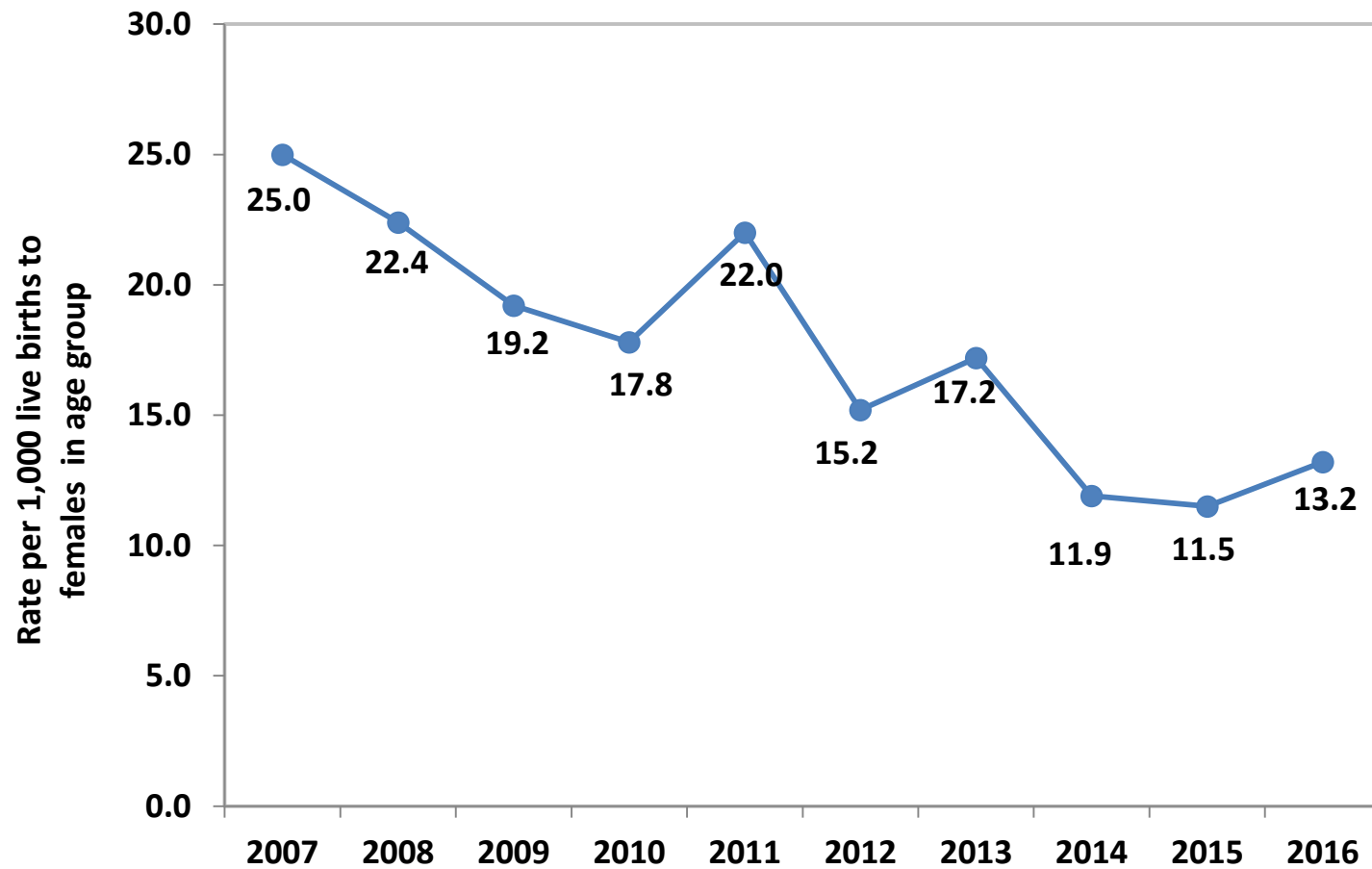
## Age-Specific Birth Rates for Ages 15-17 Years Marion County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Age-Specific Birth Rates for Ages 15-17 Years St. Joseph County Residents, 2007 – 2016

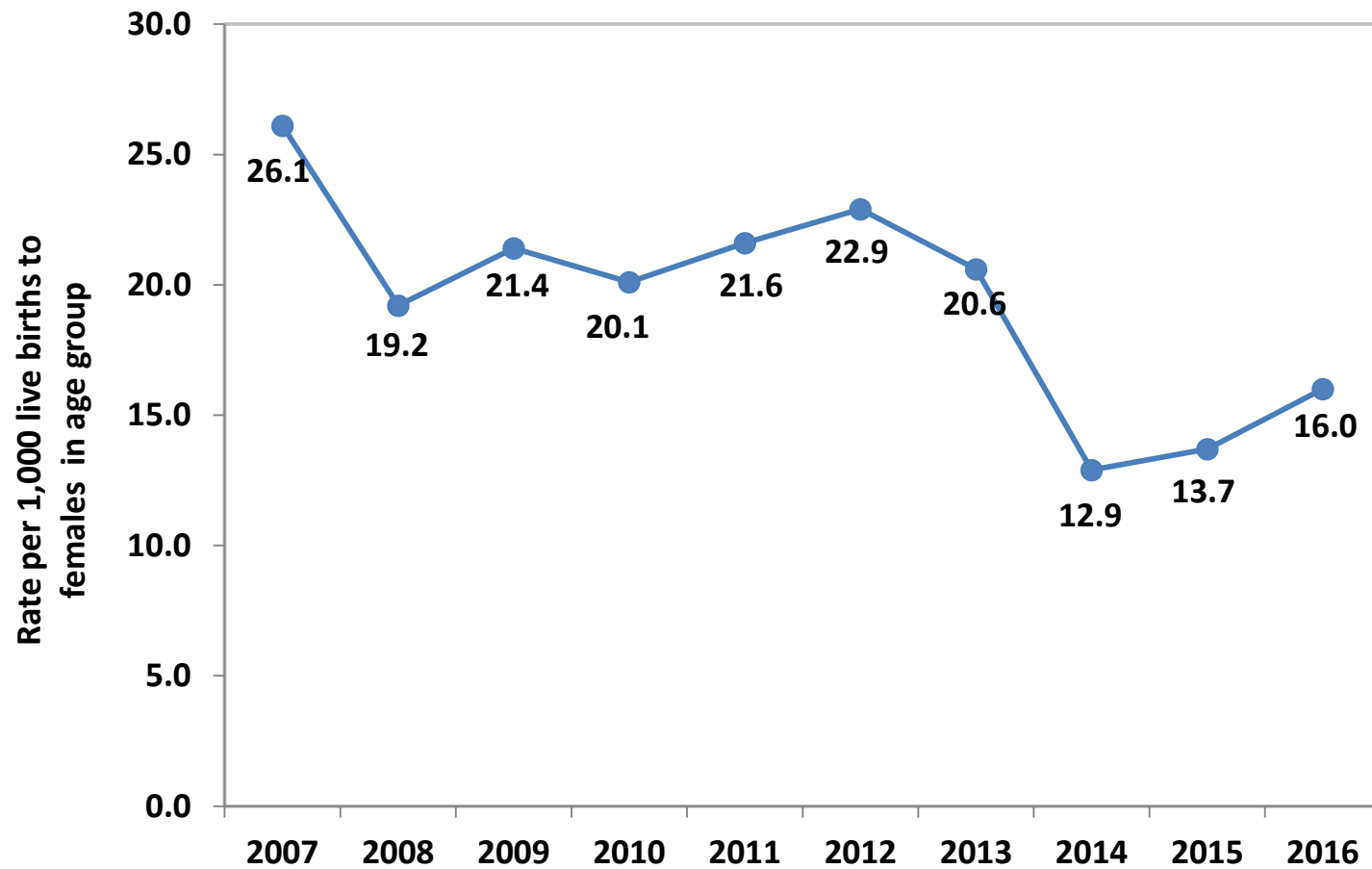


Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



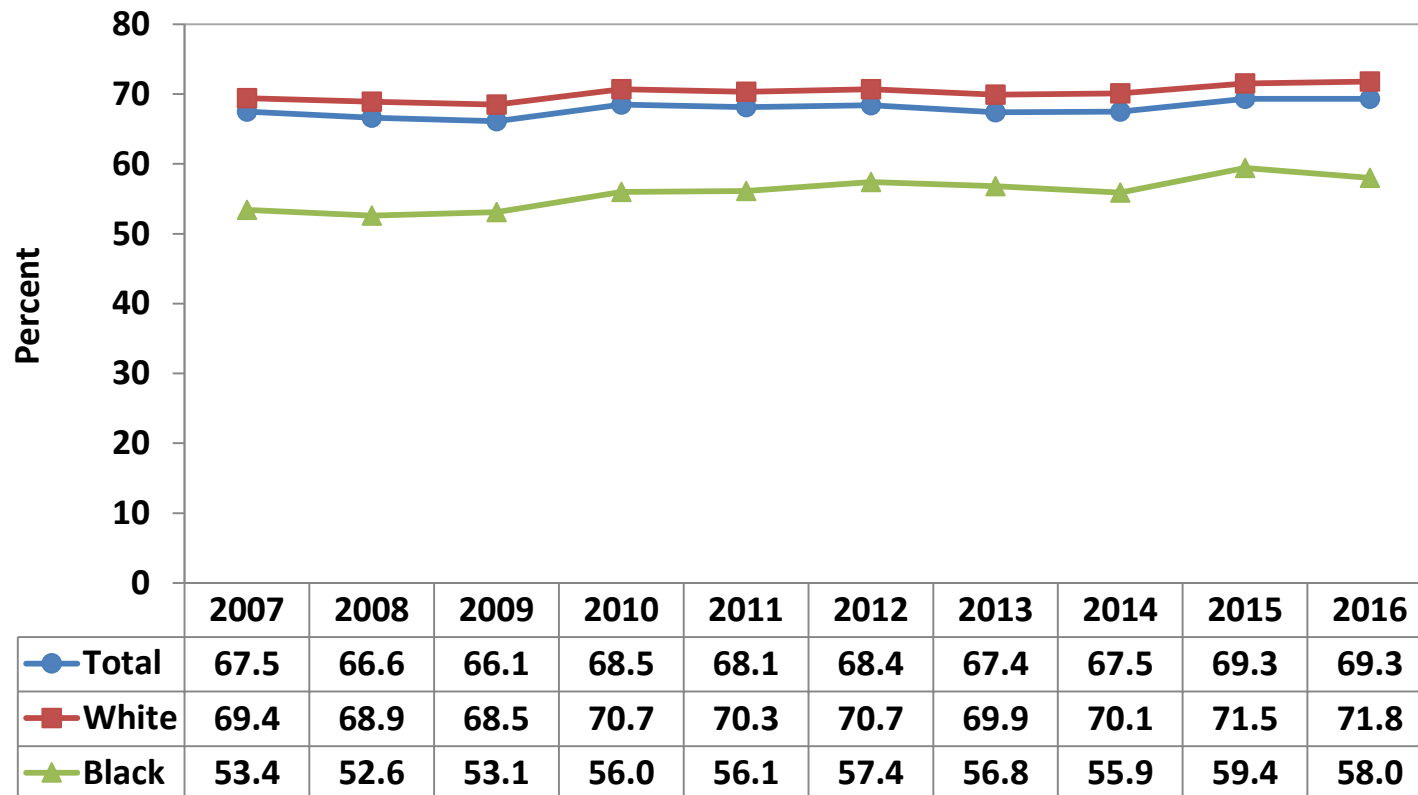
## Age-Specific Birth Rates for Ages 15-17 Years Vanderburgh County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Indiana Residents, 2007 – 2016

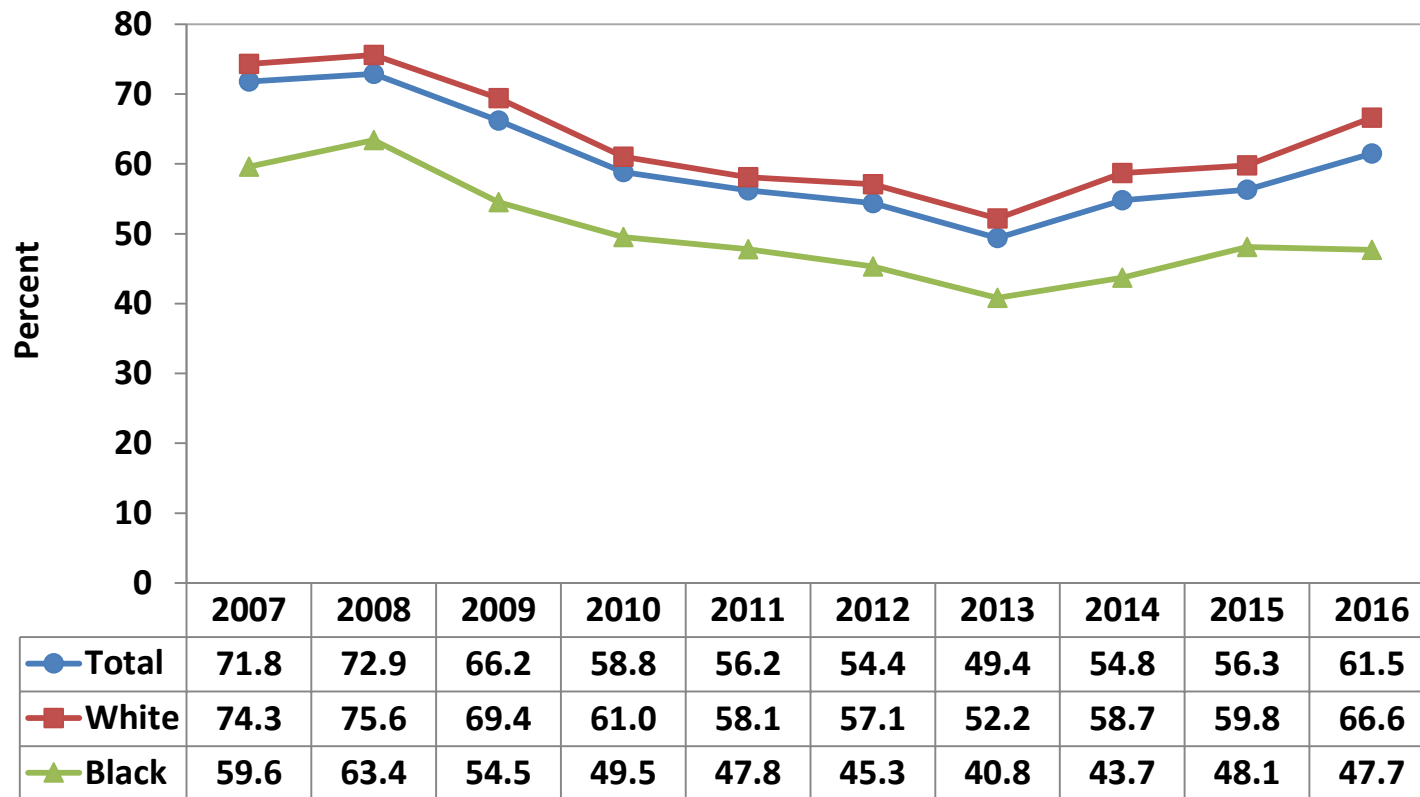


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Allen County Residents, 2007 – 2016

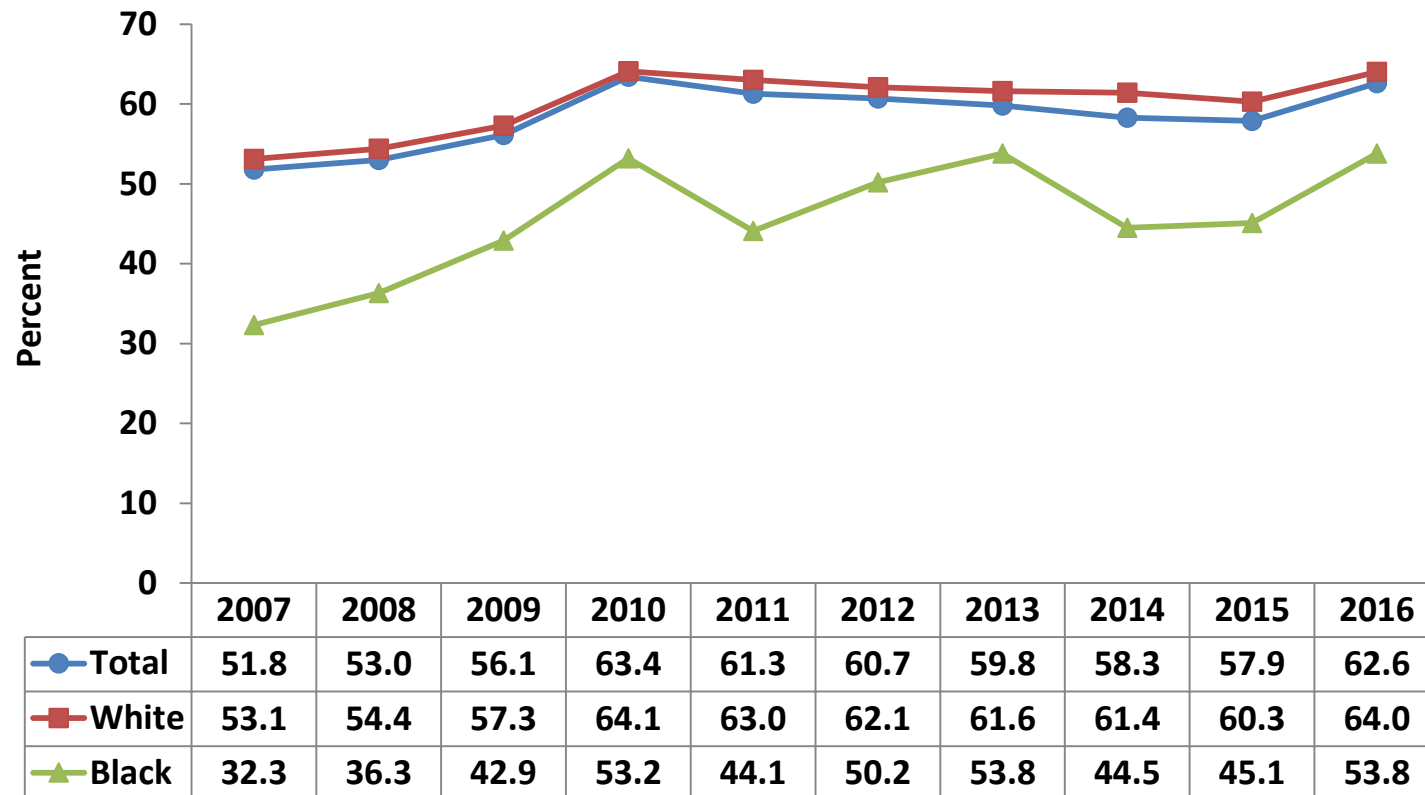


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Elkhart County Residents, 2007 – 2016

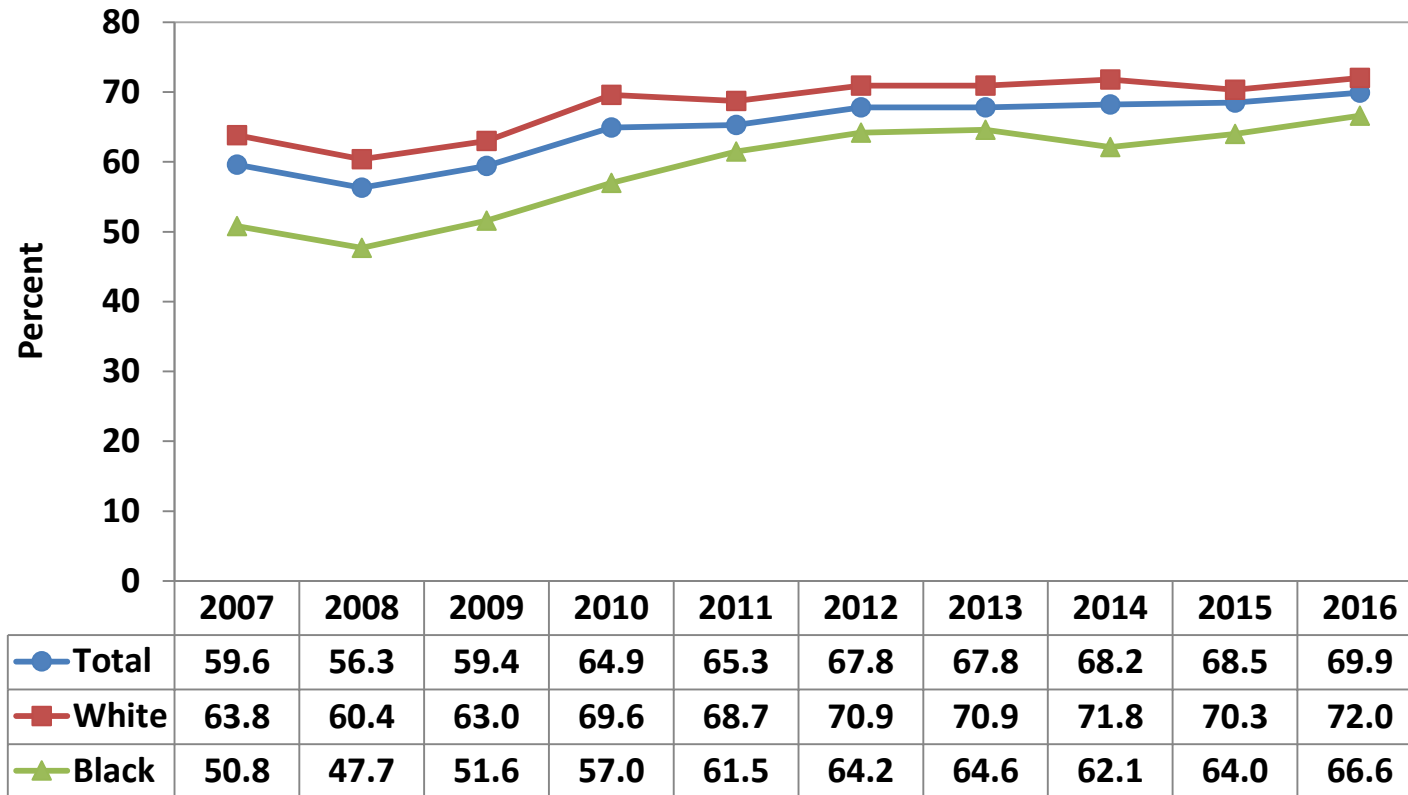


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Lake County Residents, 2007 – 2016

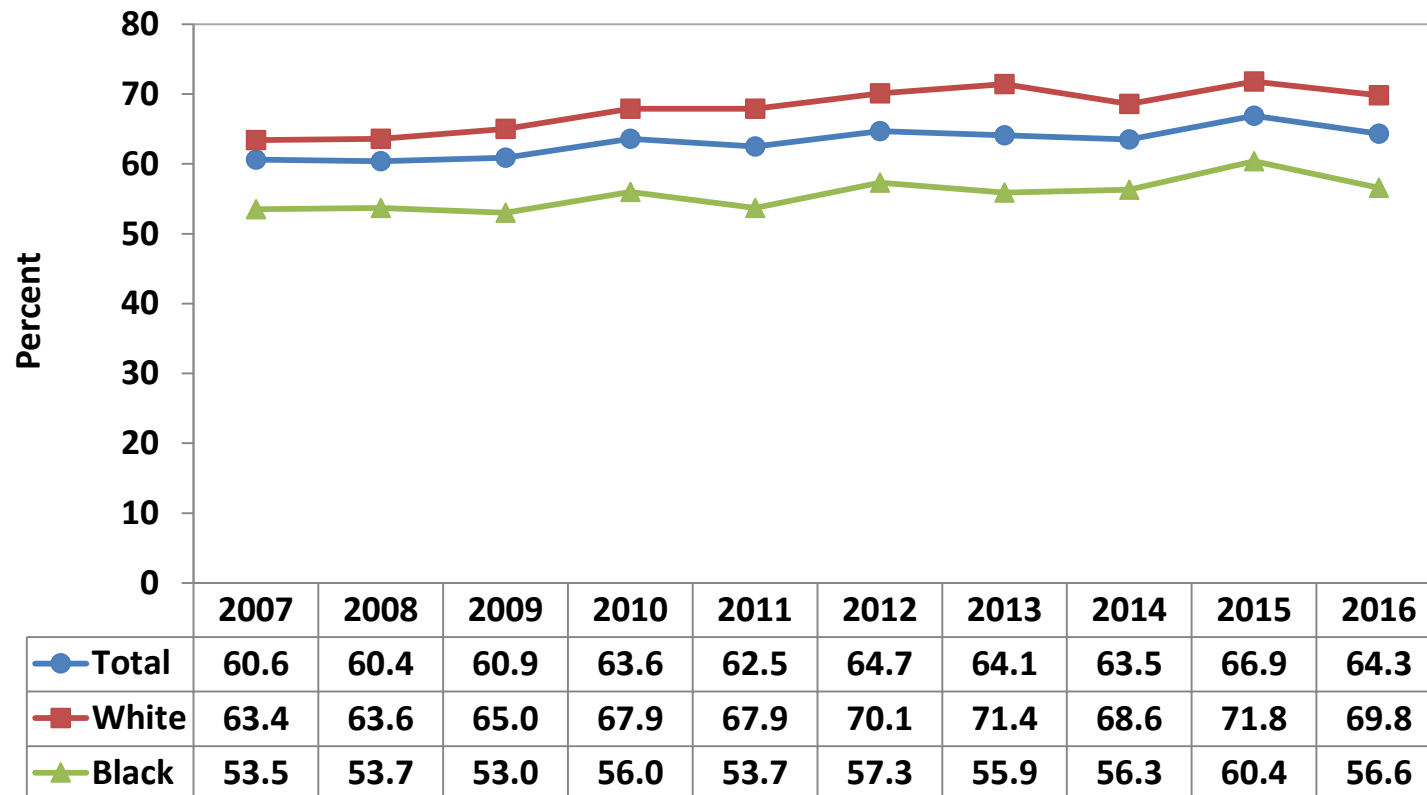


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Marion County Residents, 2007 – 2016

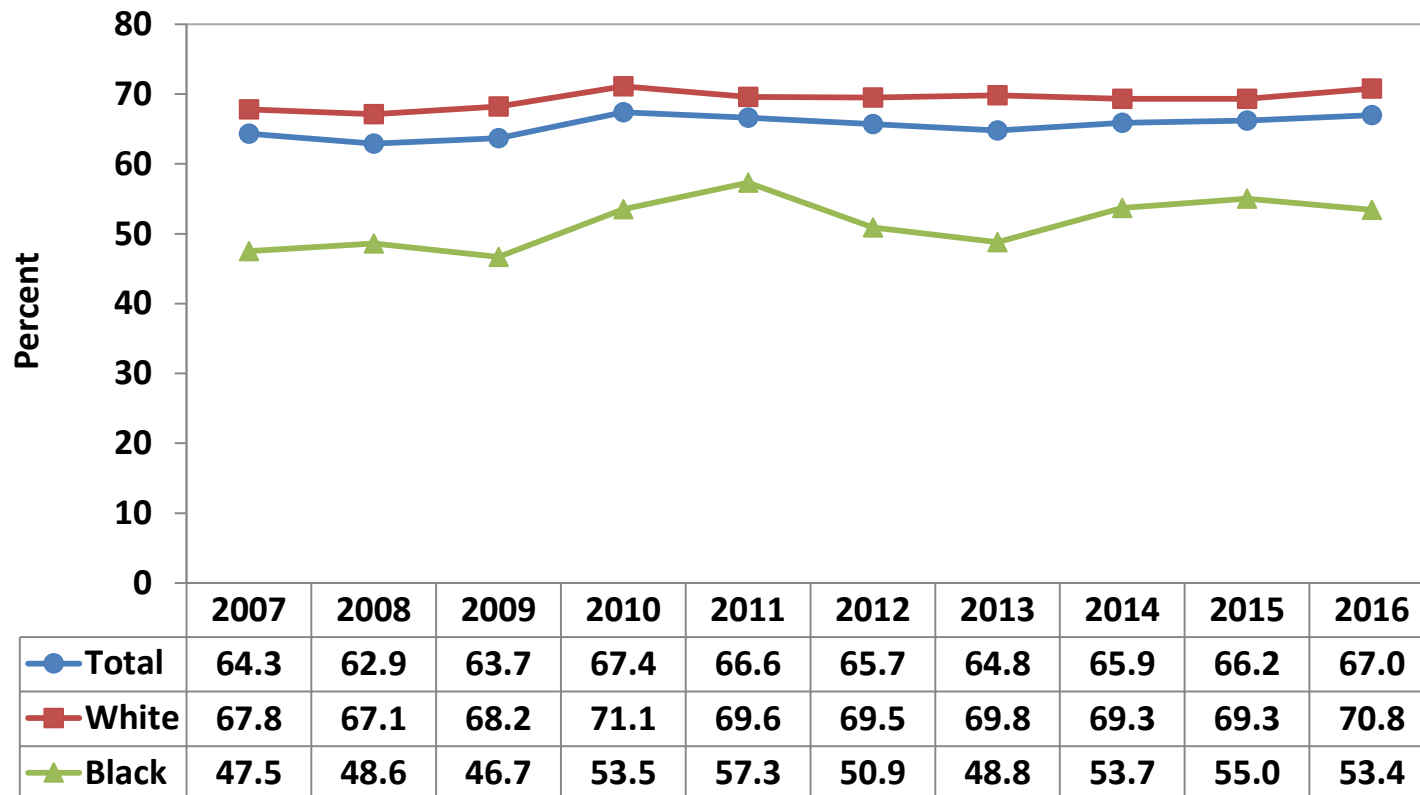


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race St. Joseph County Residents, 2007 – 2016

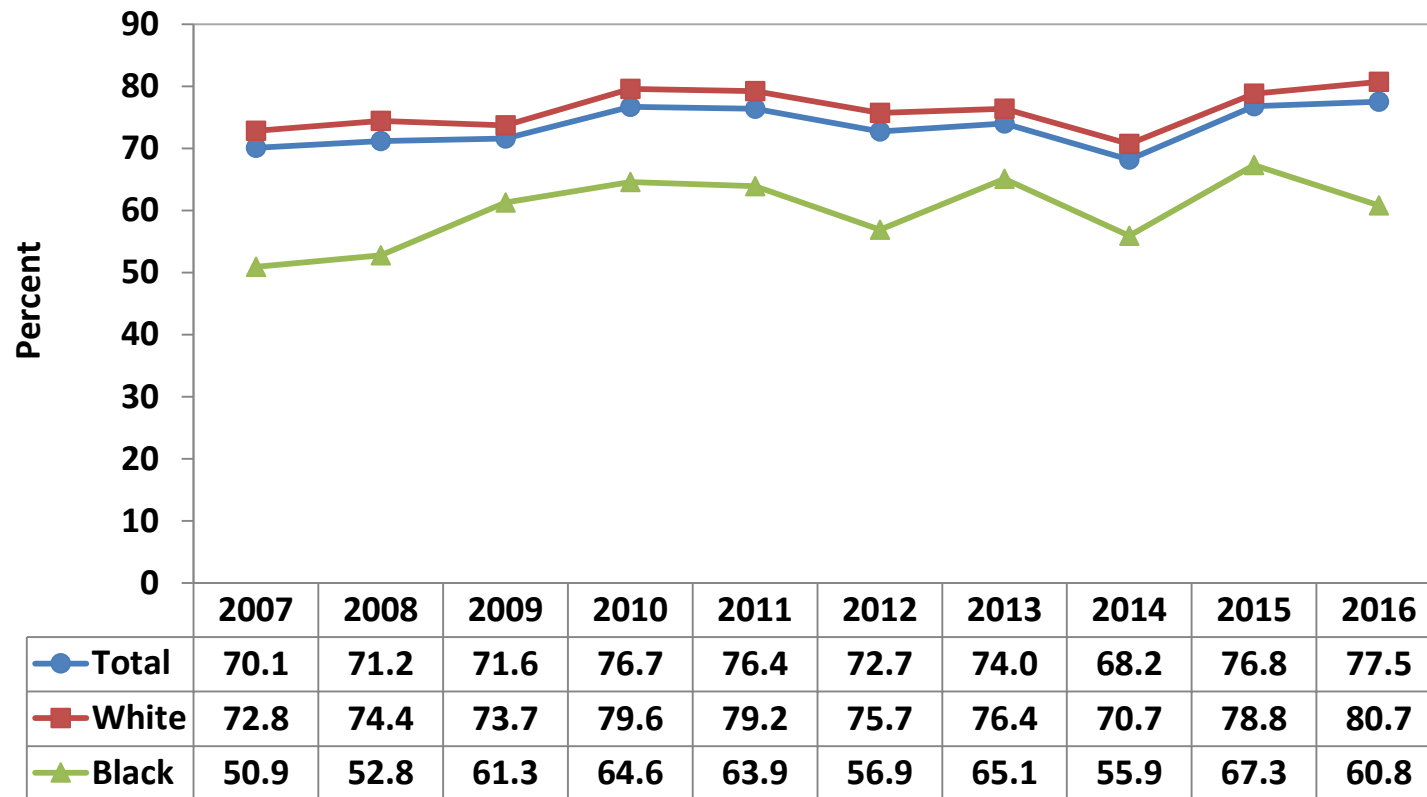


Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Race Vanderburgh County Residents, 2007 – 2016



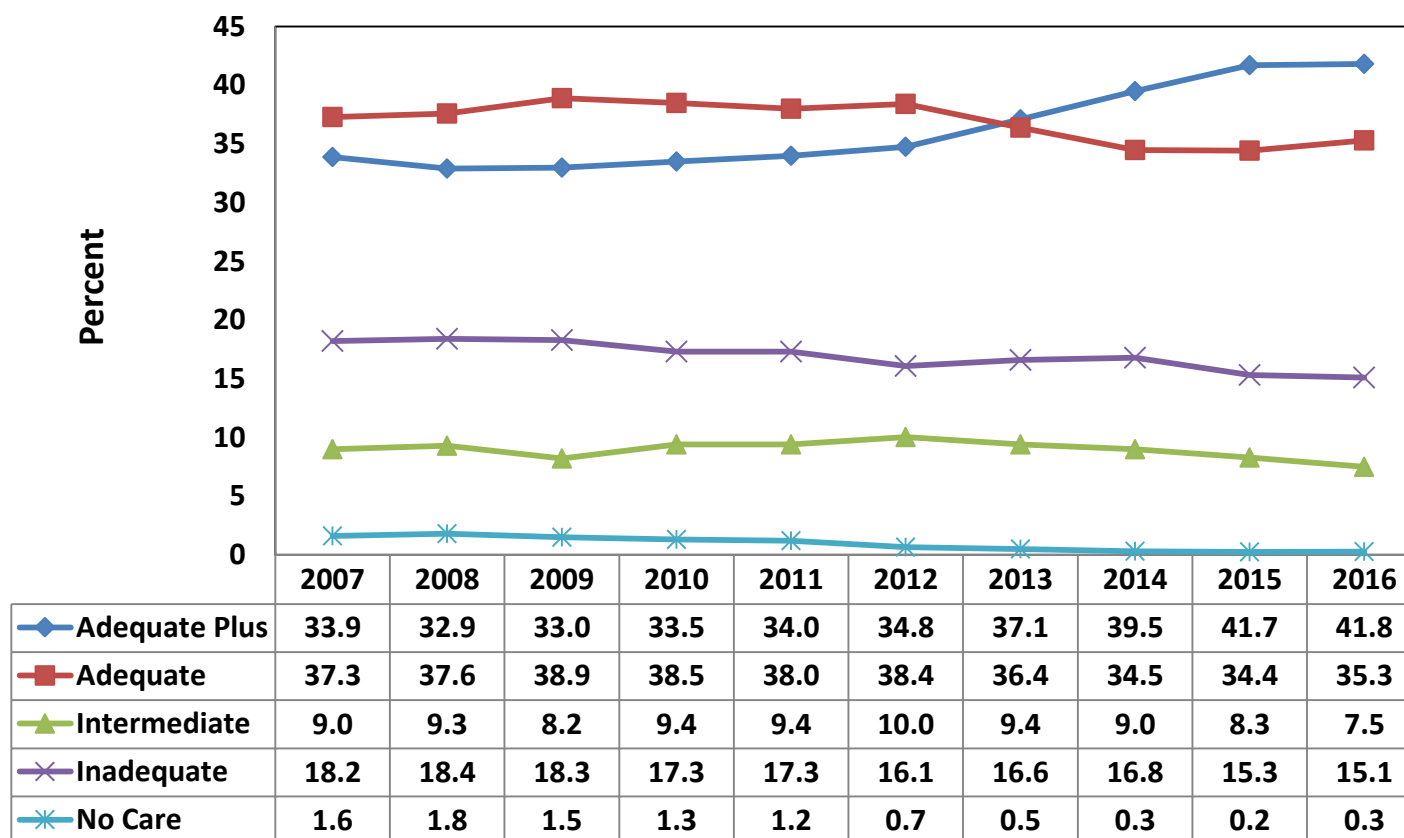
Note: The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Adequacy of Prenatal Care Utilization (Kotelchuck Index)\* Indiana Residents, 2007 – 2016



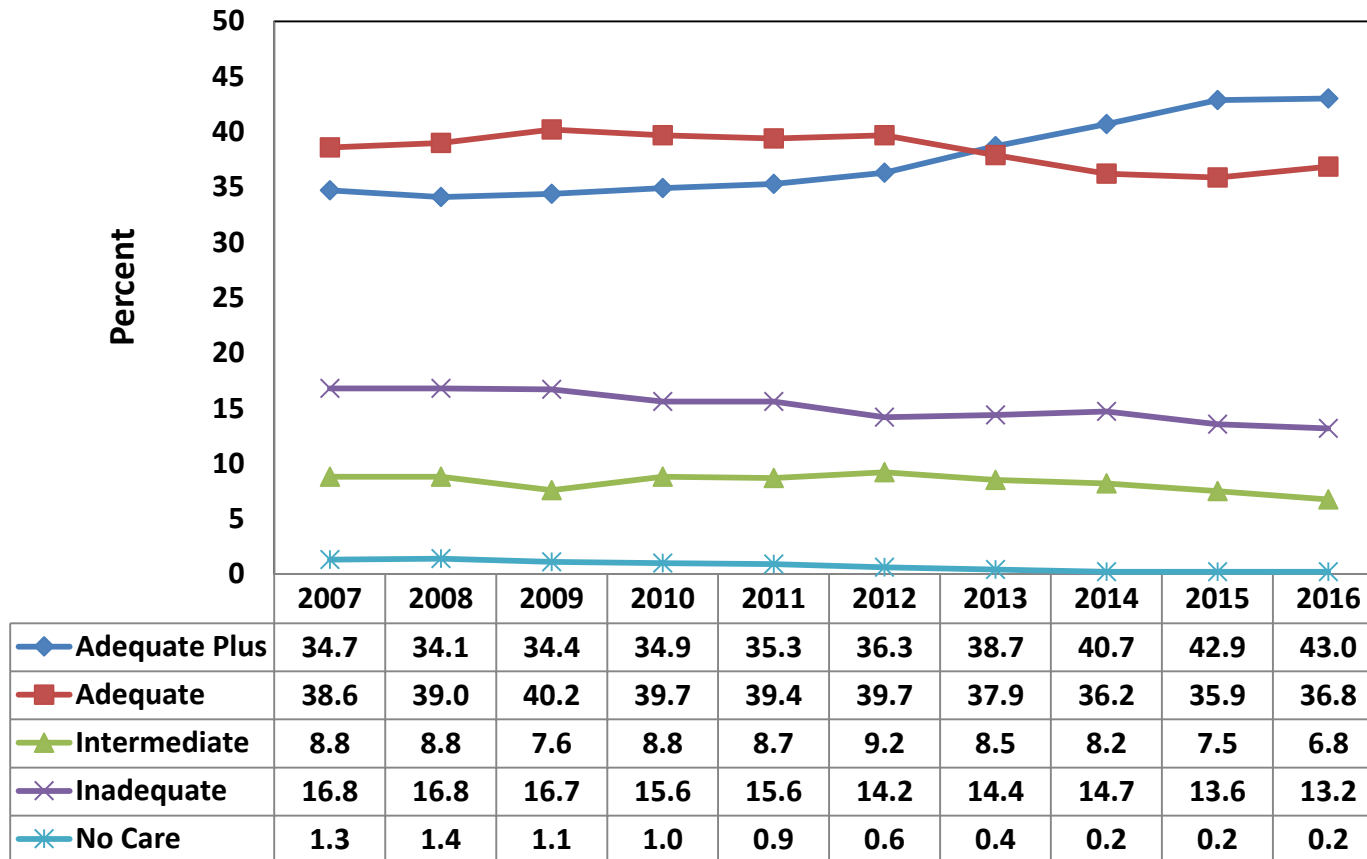
\* Please note that 2014 numbers have been revised and reflect a change in the final year-end totals. This will not match the 2005-2014 report.

Note: The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Adequacy of Prenatal Care Utilization (Kotelchuck Index)\* White Population, Indiana Residents, 2007 – 2016



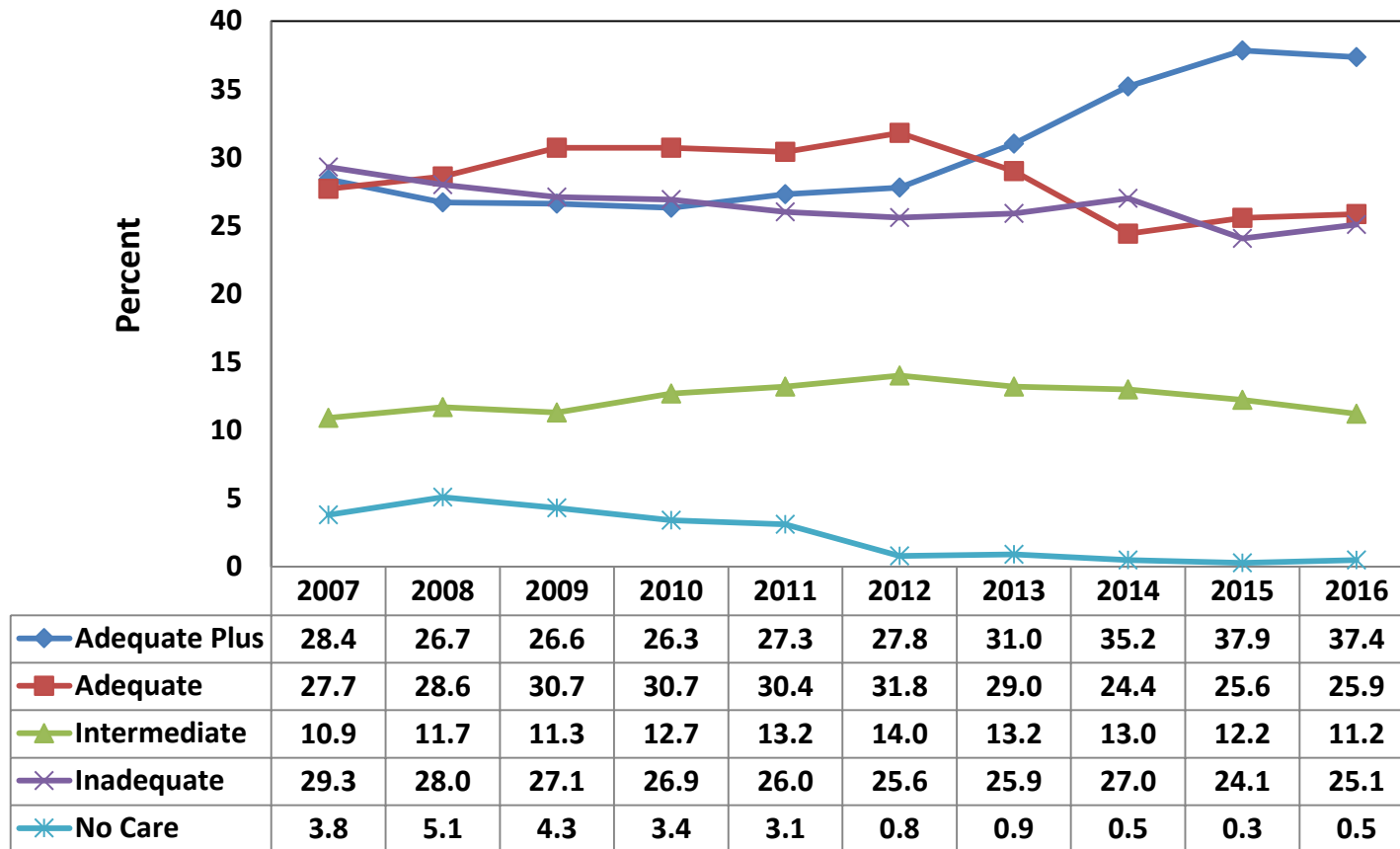
\* Please note that 2014 numbers have been revised and reflect a change in the final year-end totals. This will not match the 2005-2014 report.

Note: The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Adequacy of Prenatal Care Utilization (Kotelchuck Index)\* Black Population, Indiana Residents, 2007 – 2016



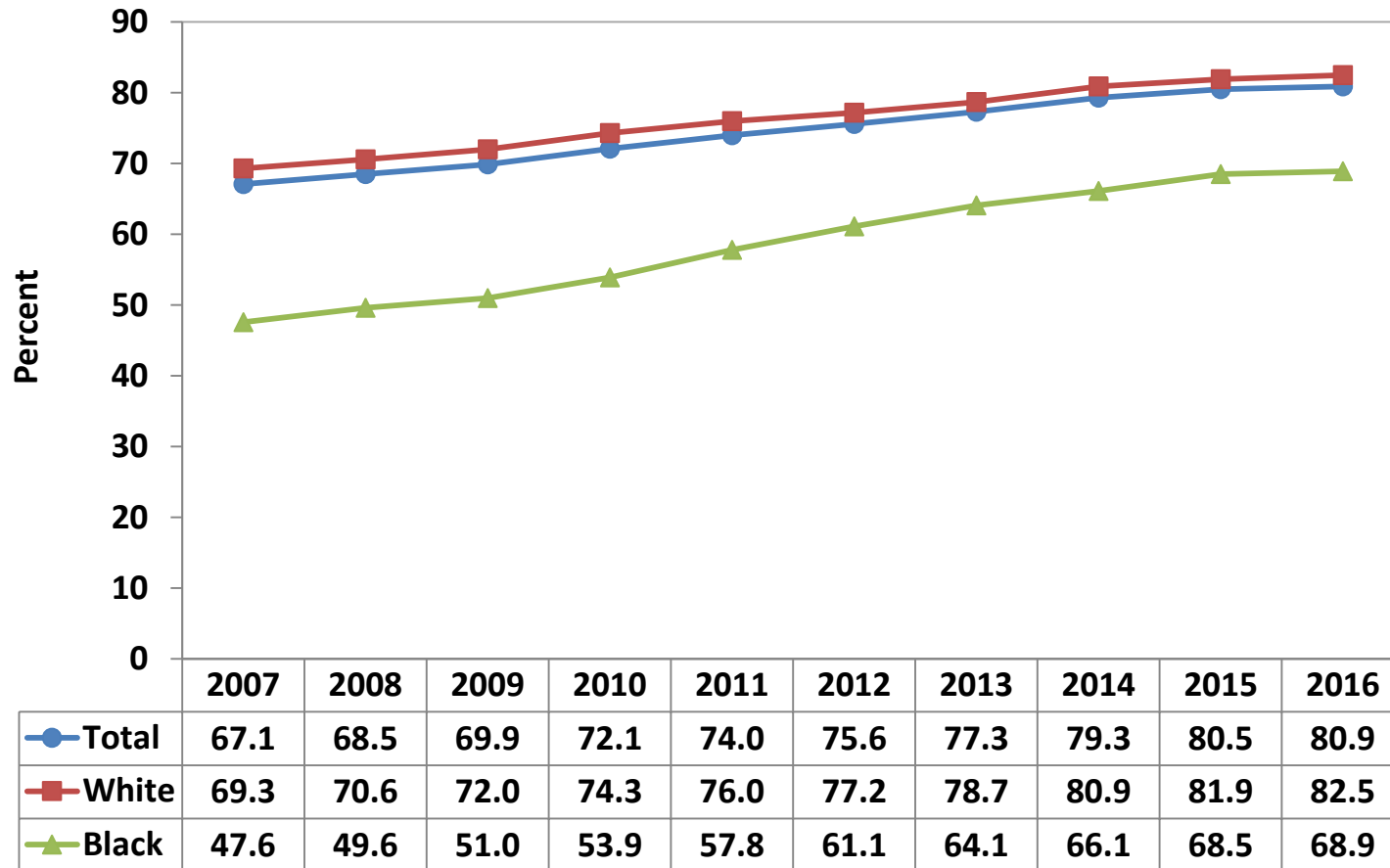
\* Please note that 2014 numbers have been revised and reflect a change in the final year-end totals. This will not match the 2005-2014 report

Note: The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

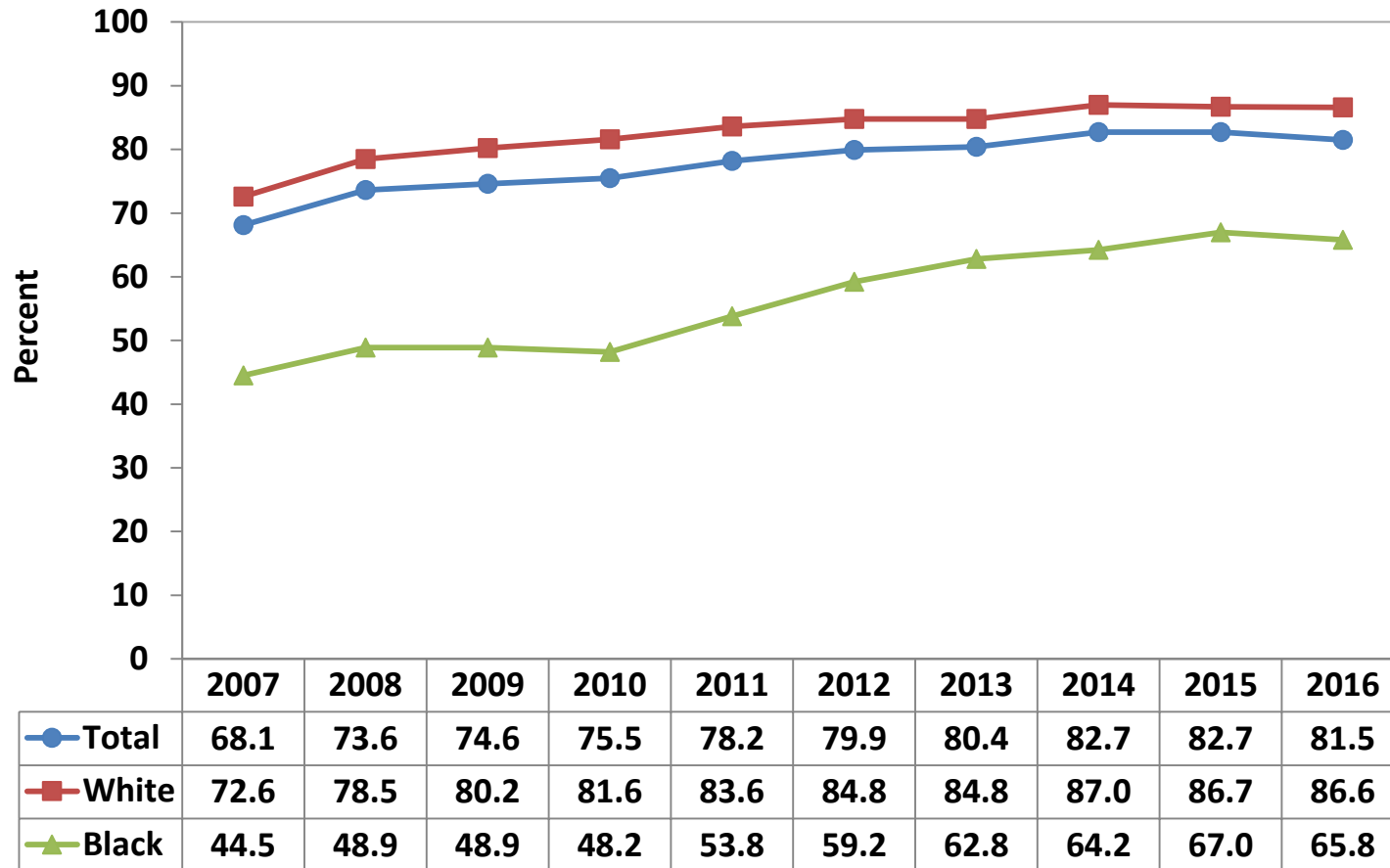
## Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

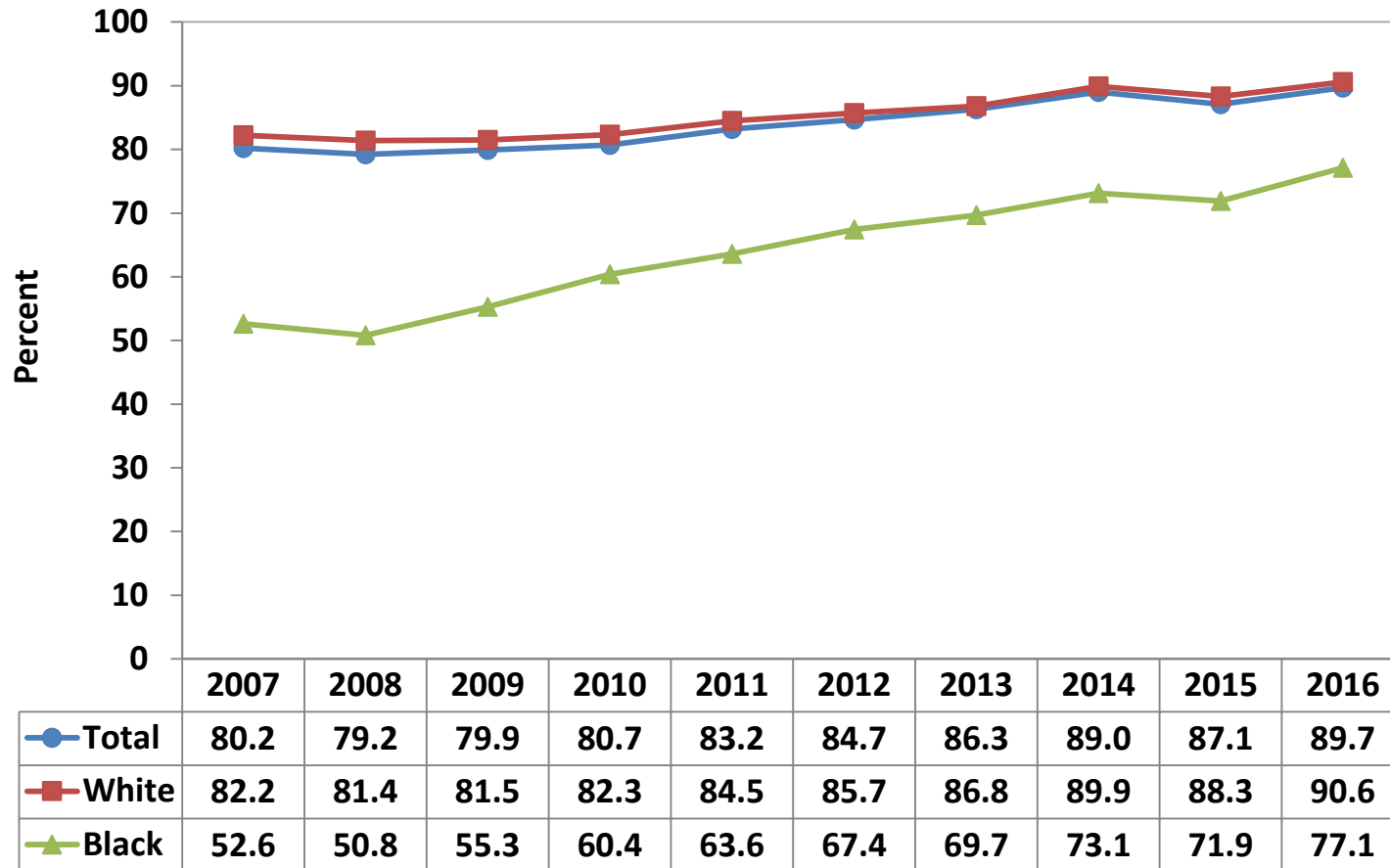
# Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Allen County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

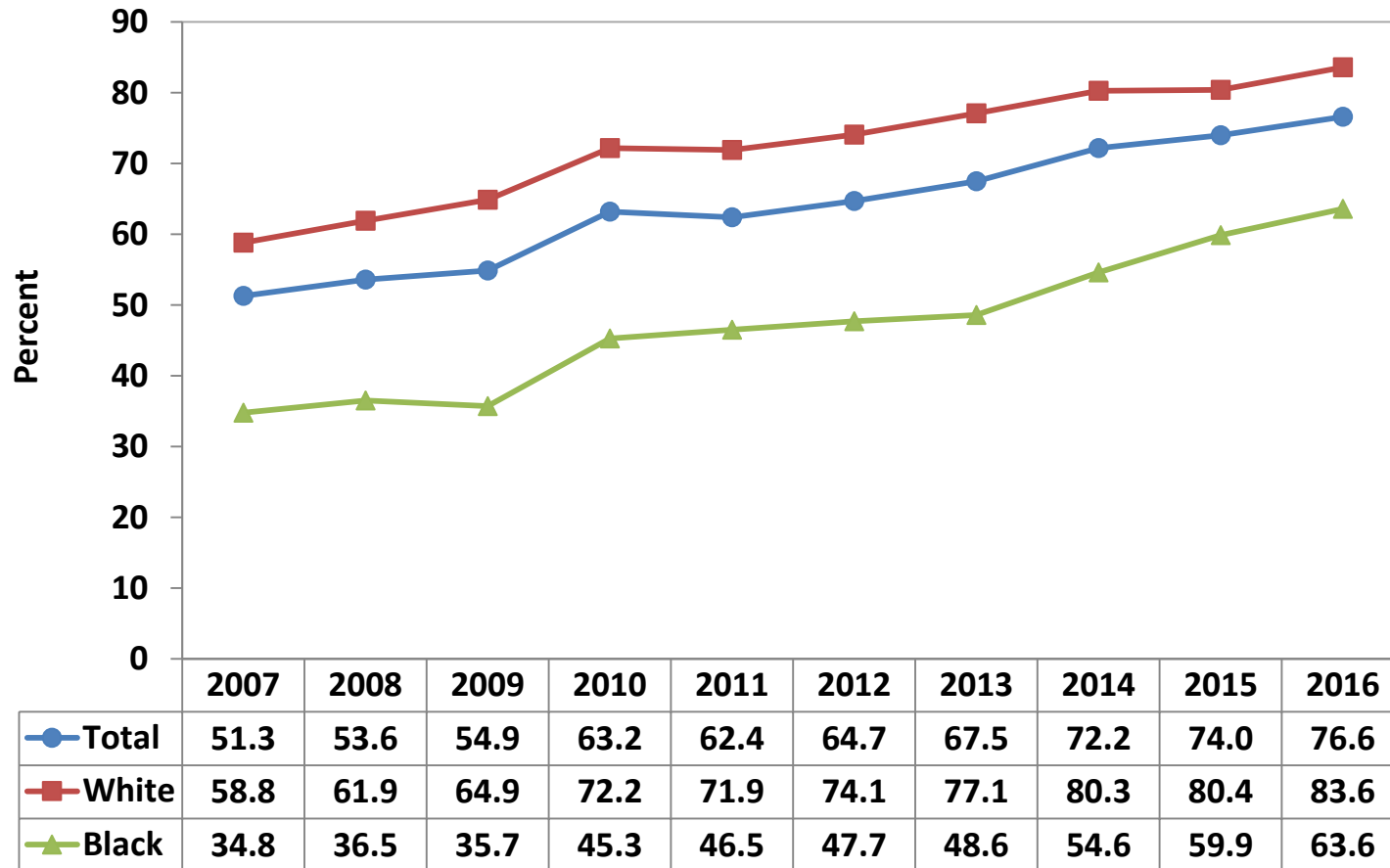
# Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Elkhart County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

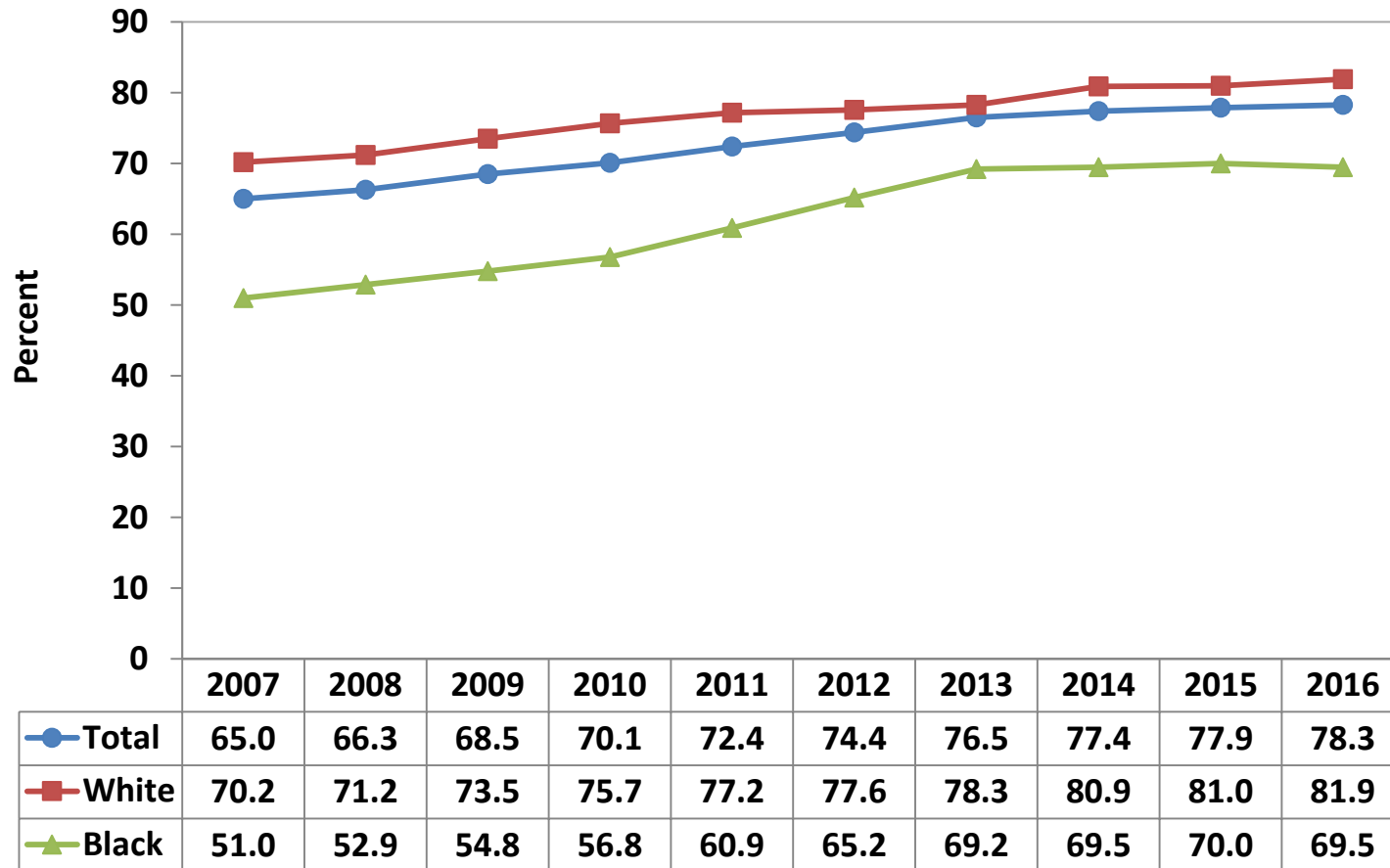
## Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Lake County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Marion County Residents, 2007 – 2016

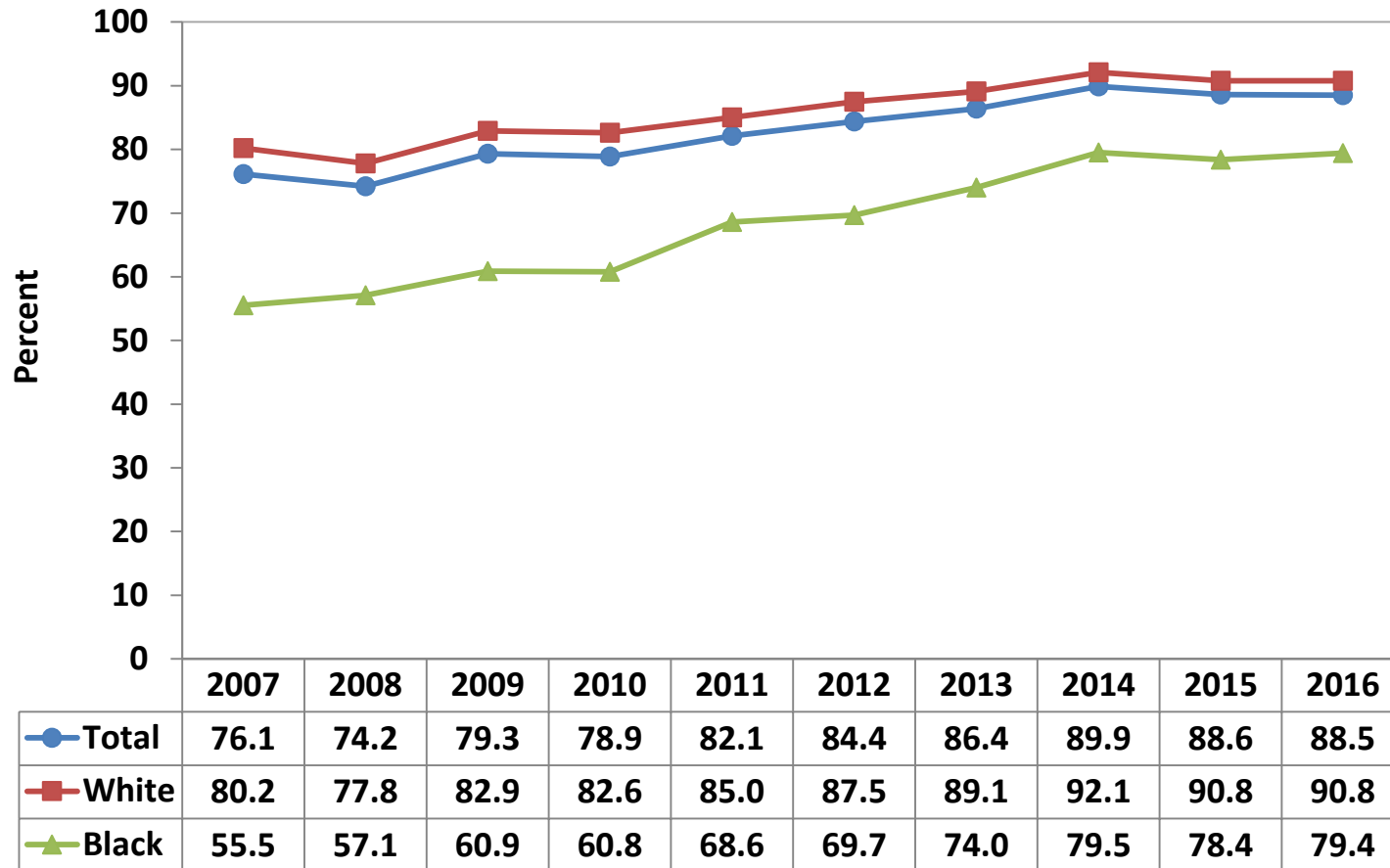


Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



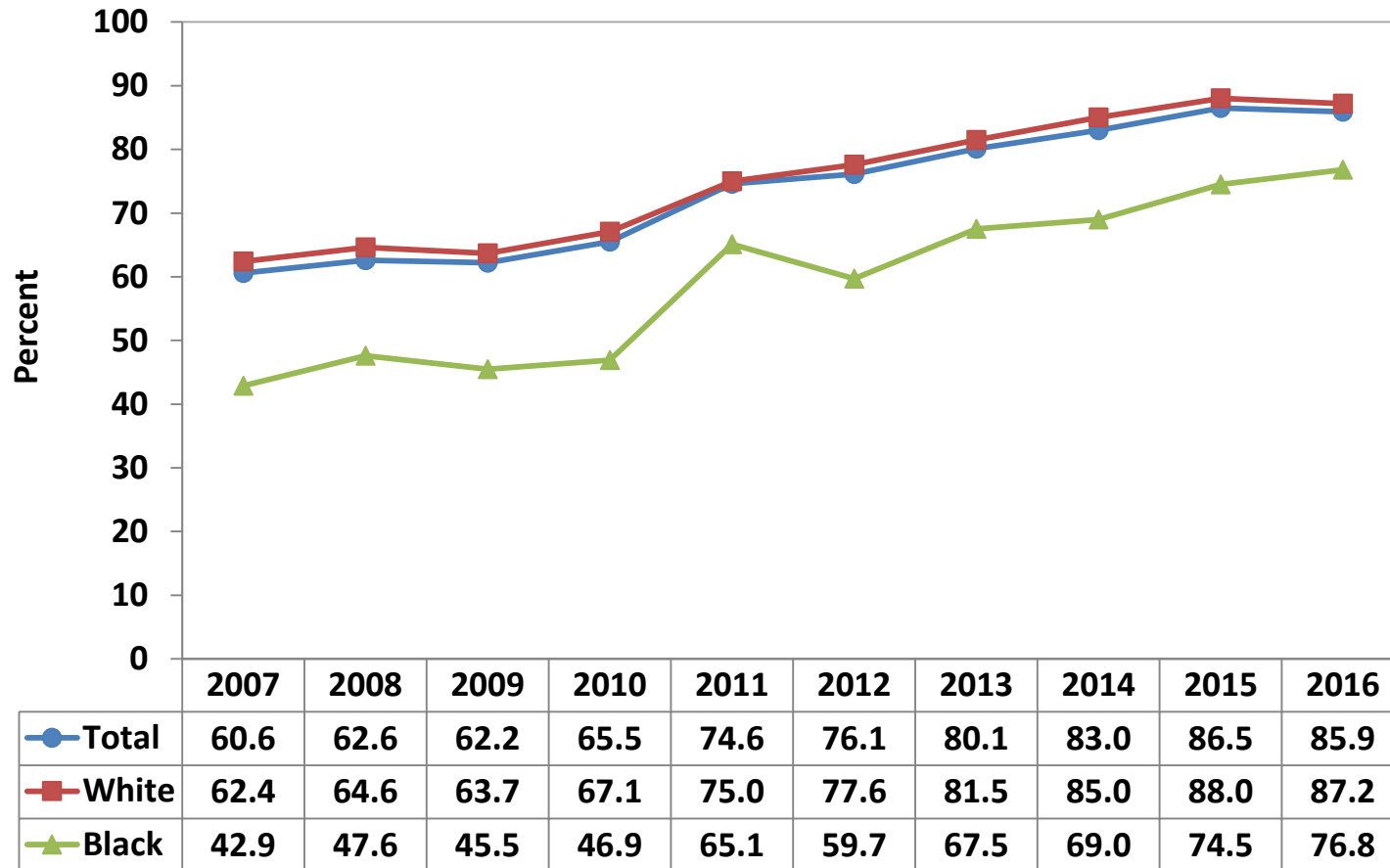
# Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race St. Joseph County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

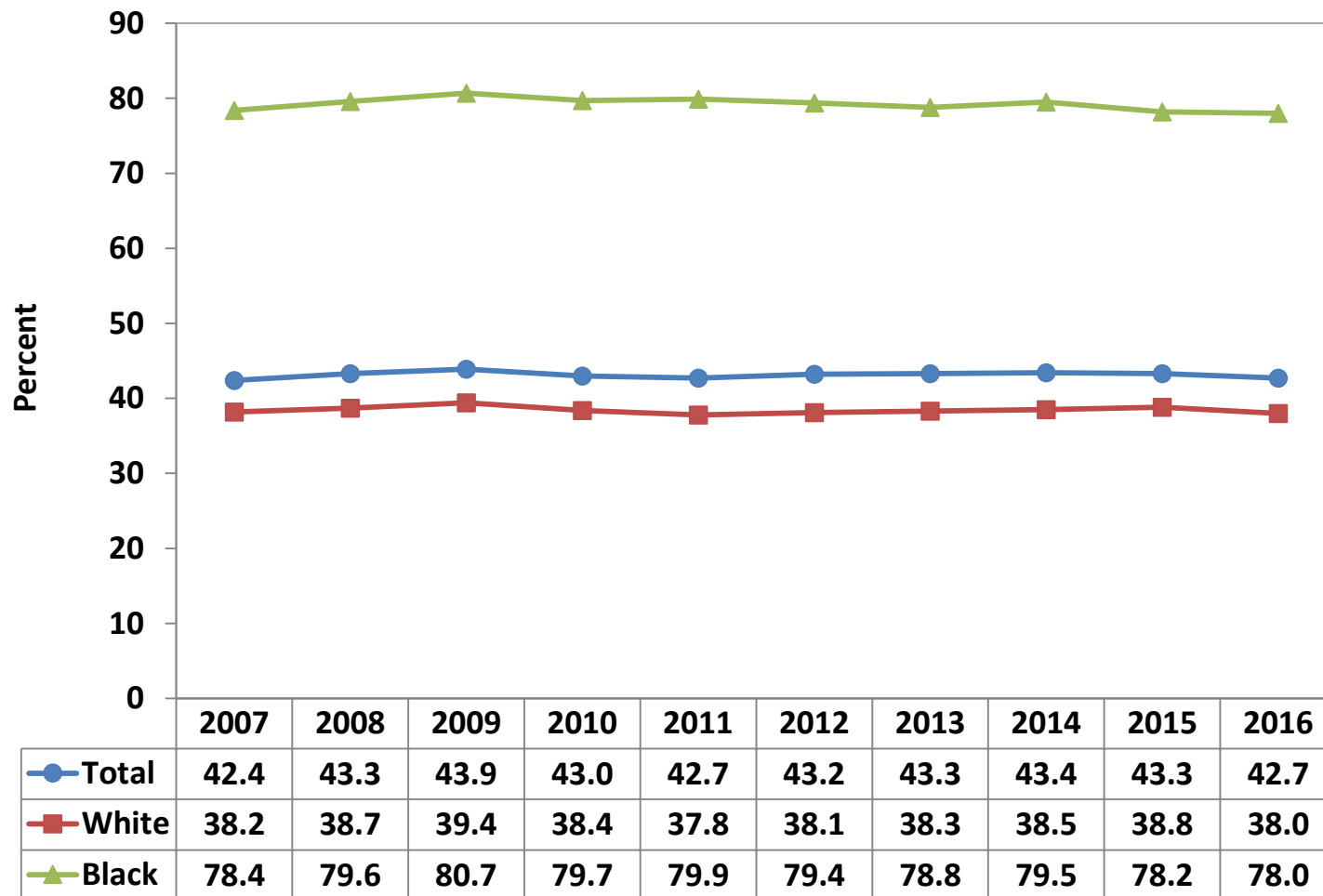
# Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Race Vanderburgh County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

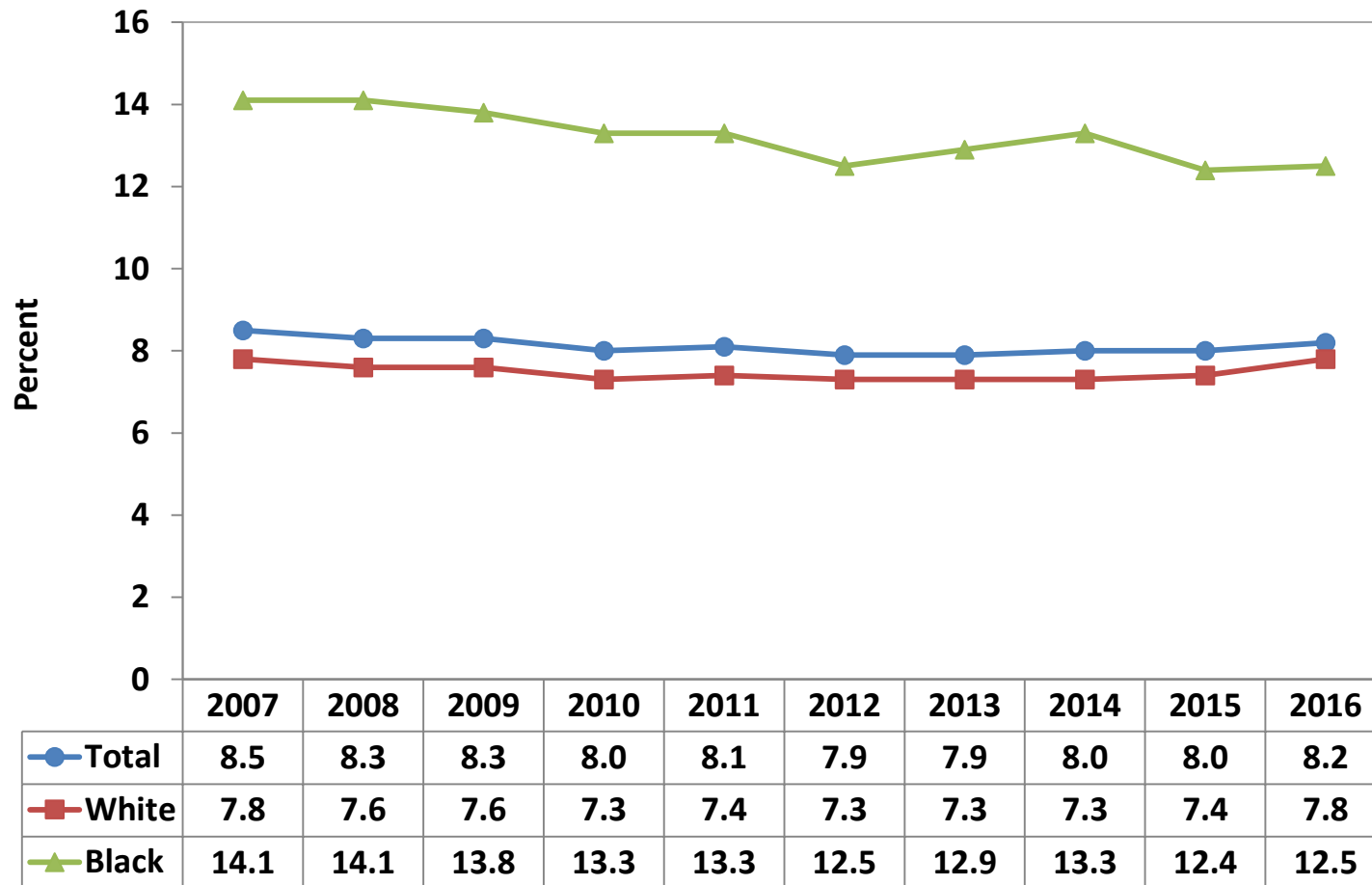
## Percent of Live Births to Unmarried Mothers by Race of Mother Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Indiana Residents, 2007 – 2016

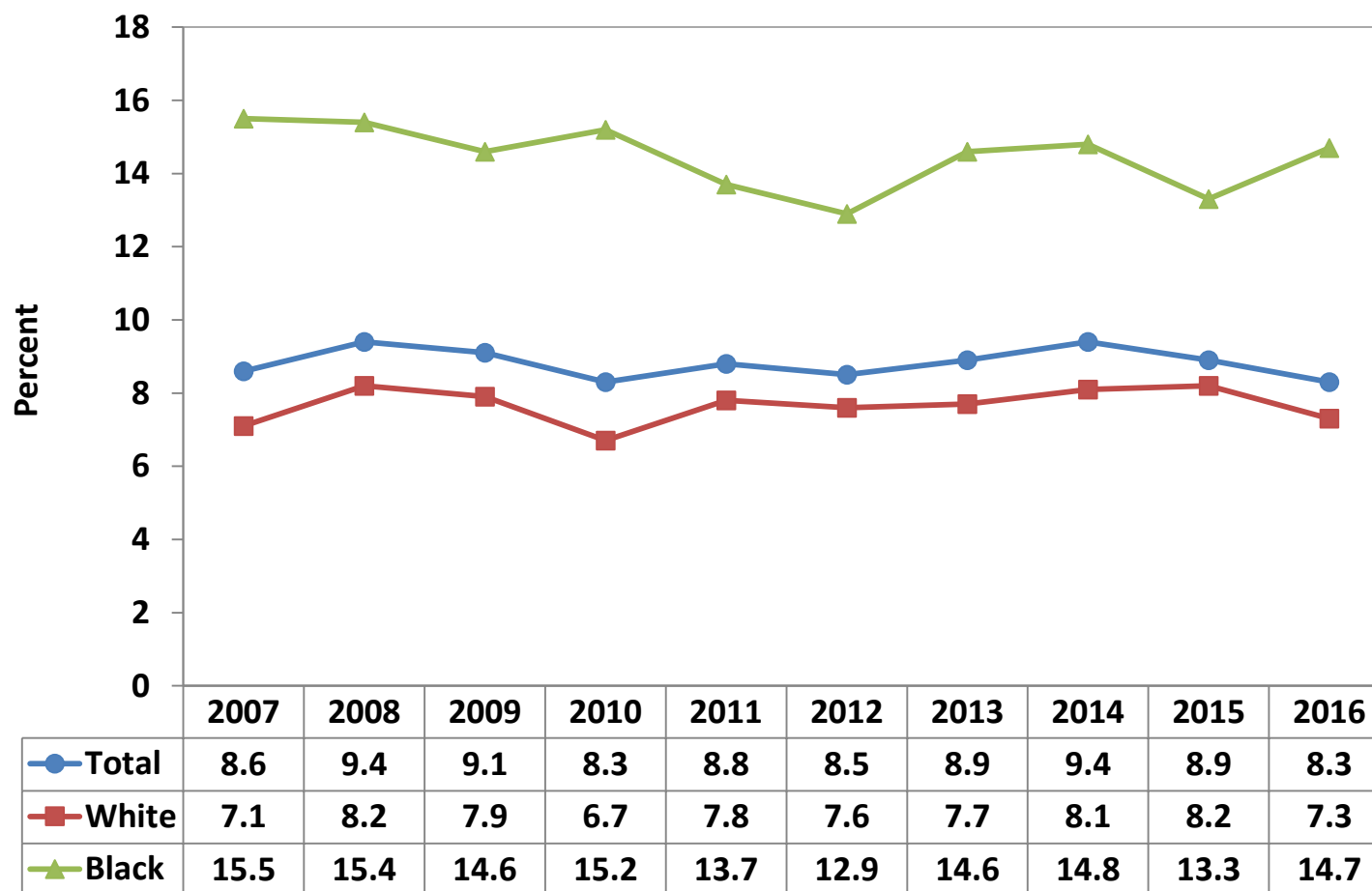


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Allen County Residents, 2007 – 2016

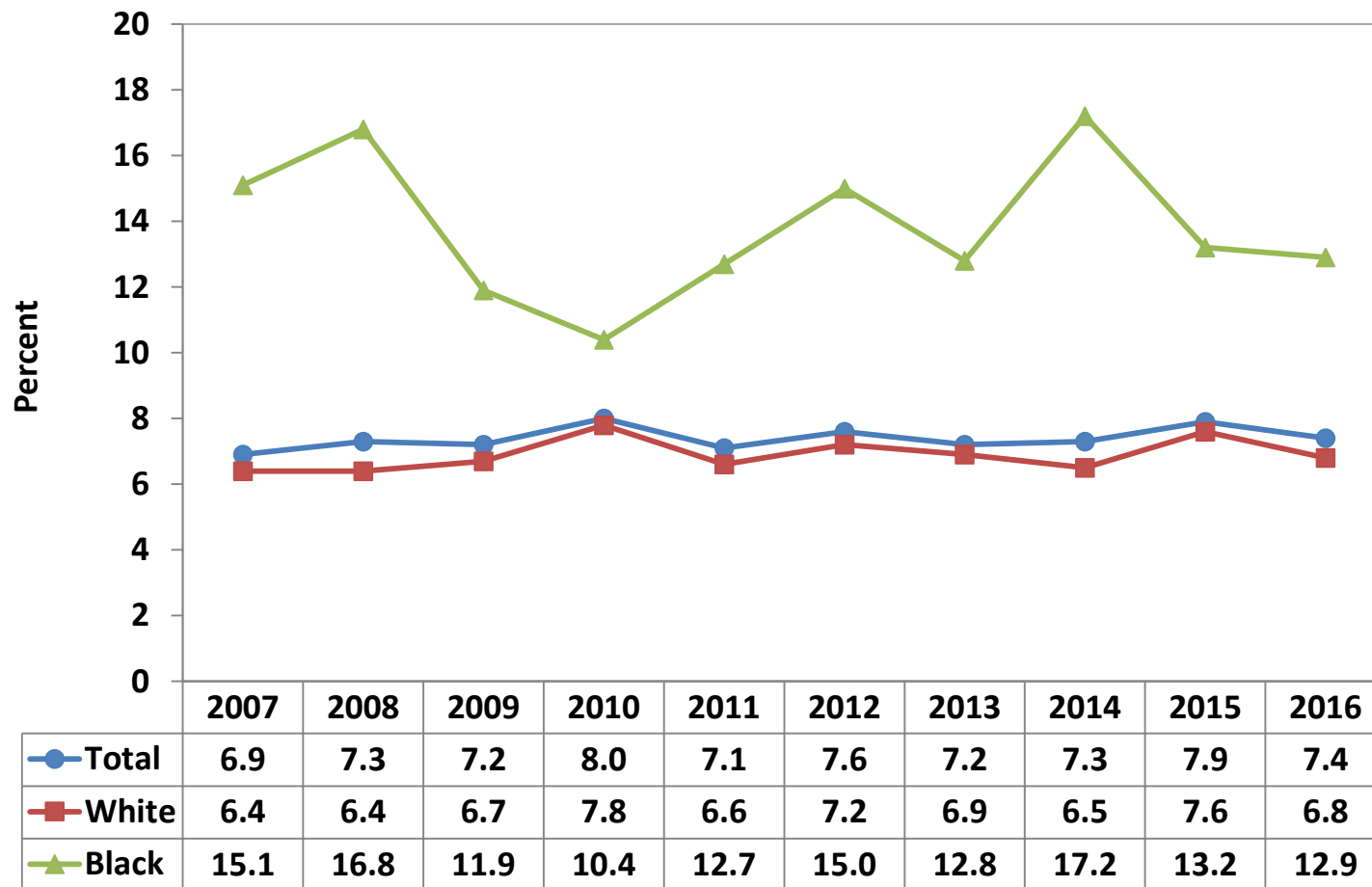


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Elkhart County Residents, 2007 – 2016

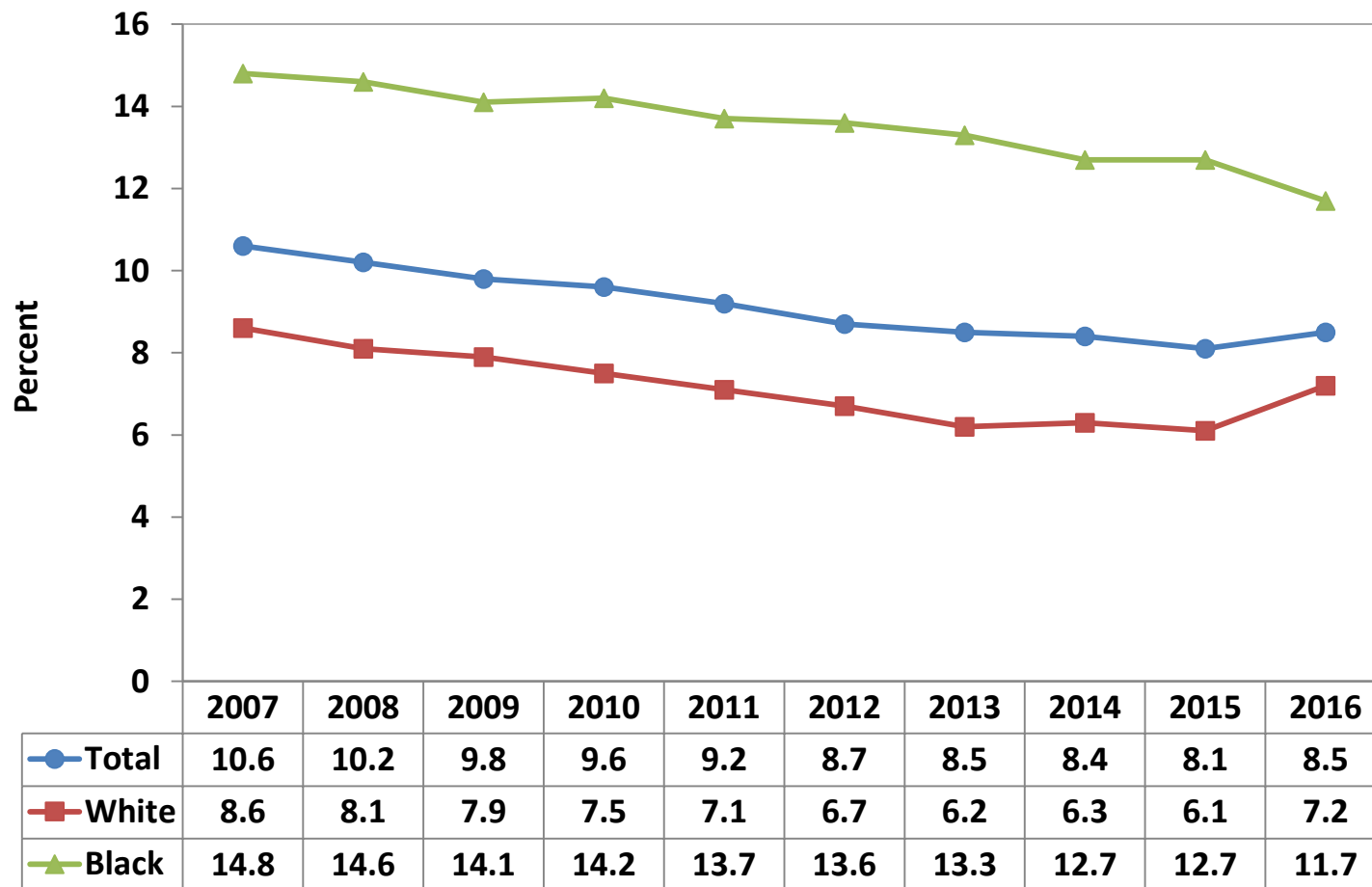


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Lake County Residents, 2007 – 2016

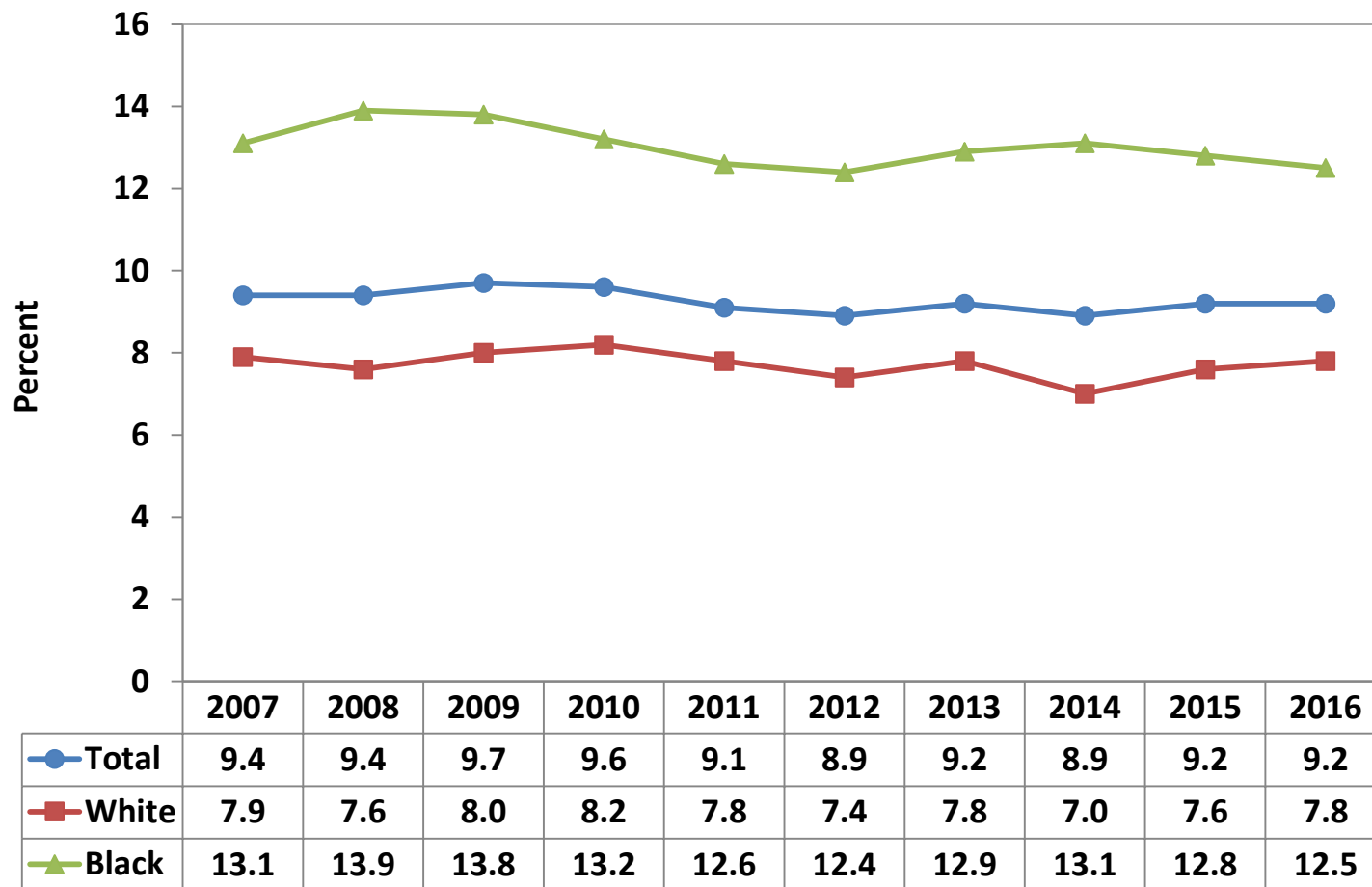


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Marion County Residents, 2007 – 2016



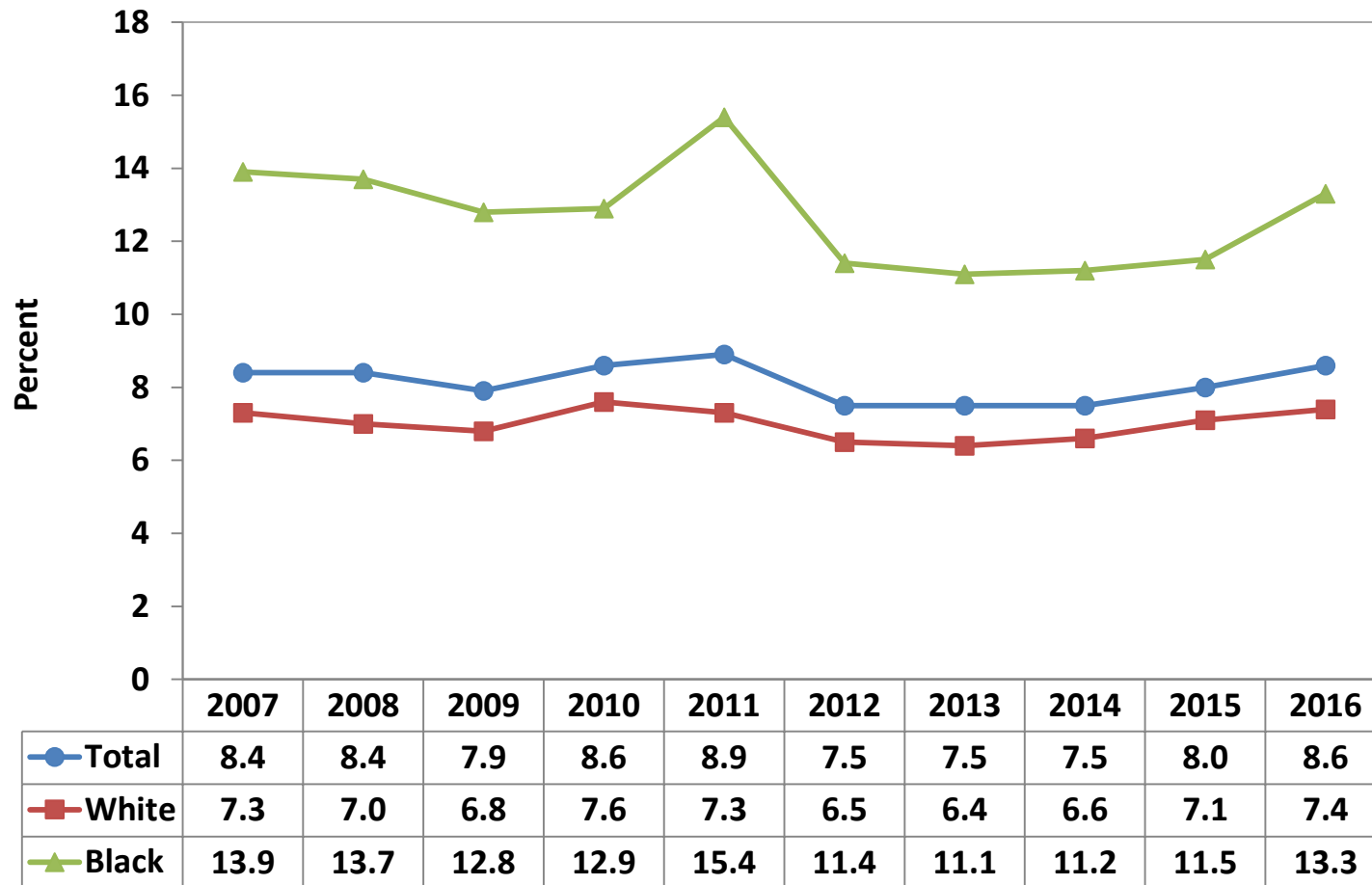
Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Percent of Low Birthweight Infants by Race of Mother St. Joseph County Residents, 2007 – 2016

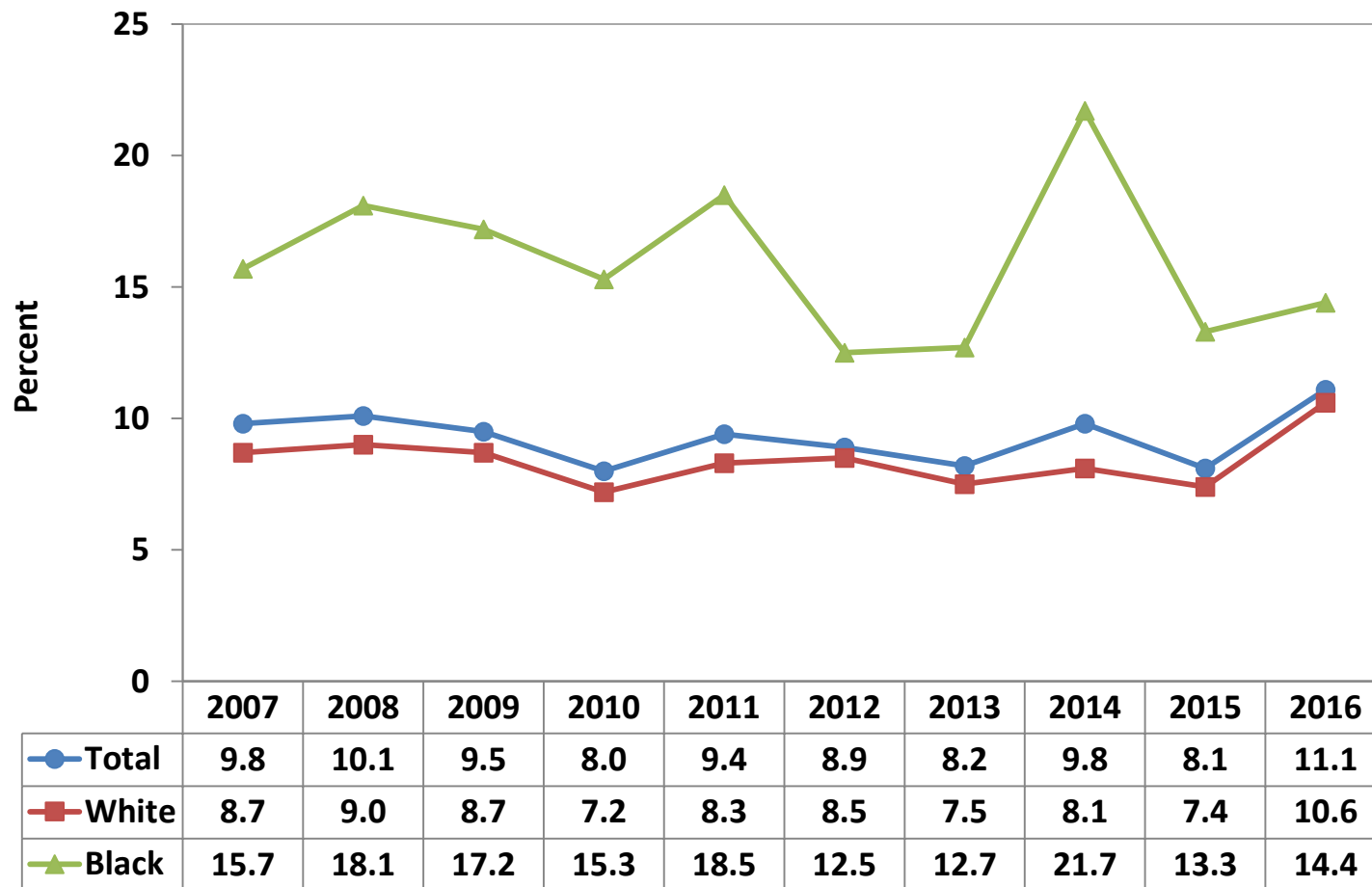


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Race of Mother Vanderburgh County Residents, 2007 – 2016

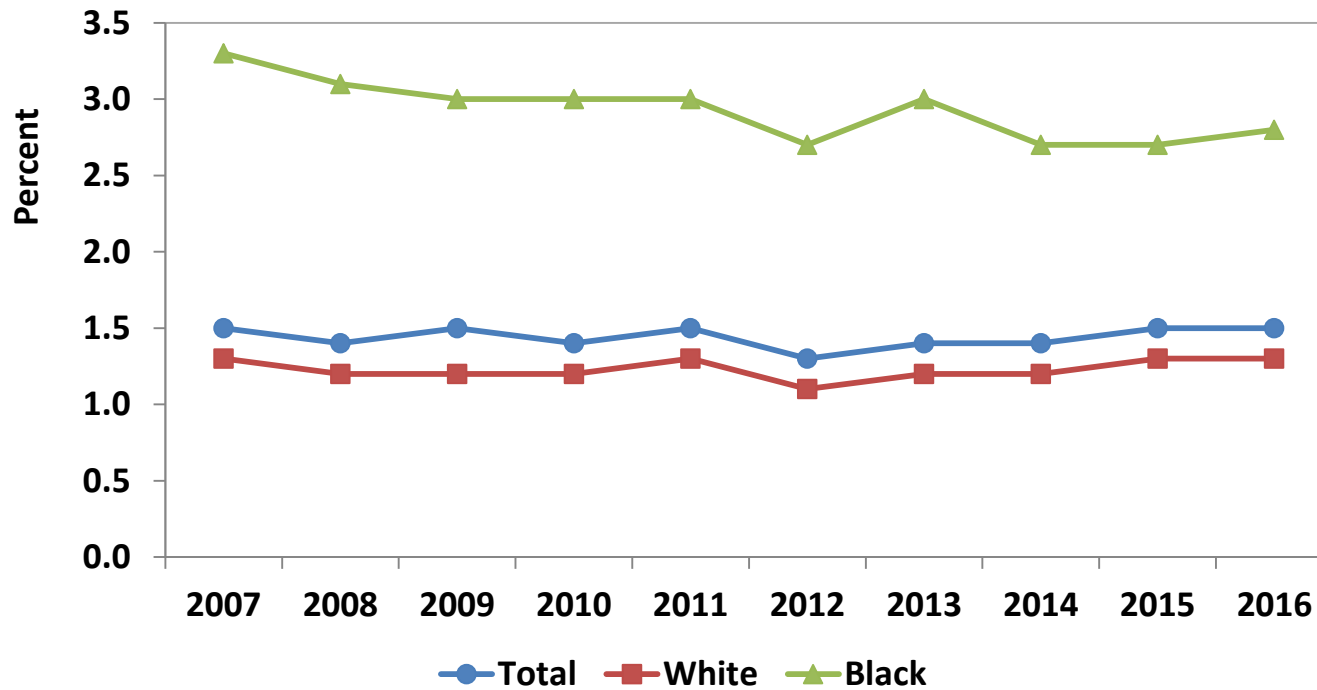


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother Indiana Residents, 2007 – 2016



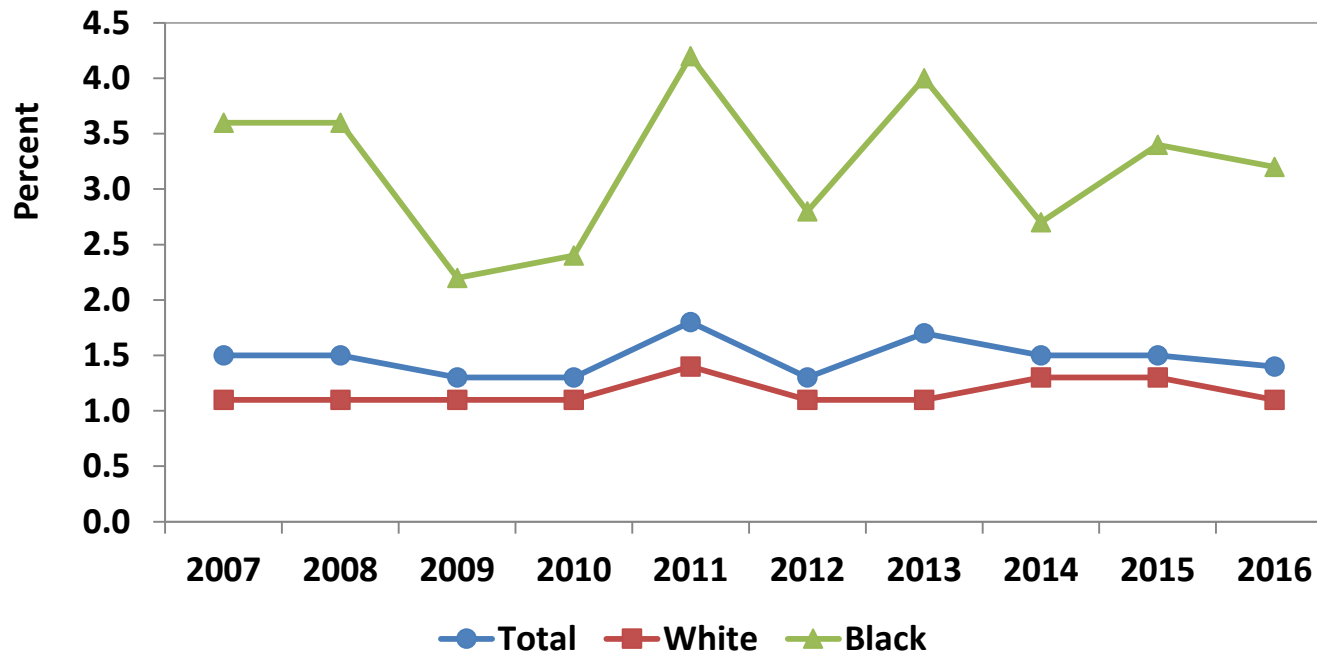
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	1.5	1.4	1.5	1.4	1.5	1.3	1.4	1.4	1.5	1.5
<b>White</b>	1.3	1.2	1.2	1.2	1.3	1.1	1.2	1.2	1.3	1.3
<b>Black</b>	3.3	3.1	3.0	3.0	3.0	2.7	3.0	2.7	2.7	2.8

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother Allen County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	1.5	1.5	1.3	1.3	1.8	1.3	1.7	1.5	1.5	1.4
<b>White</b>	1.1	1.1	1.1	1.1	1.4	1.1	1.1	1.3	1.3	1.1
<b>Black</b>	3.6	3.6	2.2*	2.4	4.2	2.8	4.0	2.7	3.4	3.2

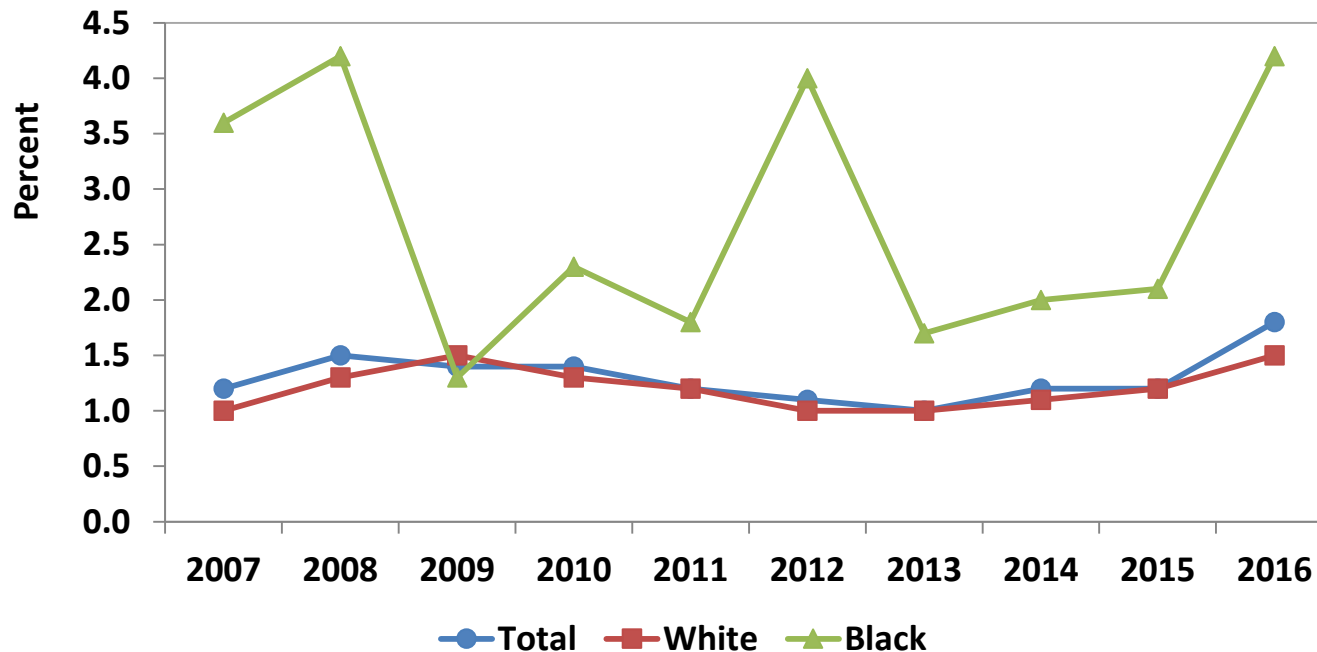
\*Numerator is less than 20, the percent is unstable. We do not recommend comparing unstable percentages.

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother Elkhart County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total	1.2	1.5	1.4	1.4	1.2	1.1	1.0	1.2	1.2	1.8
White	1.0	1.3	1.5	1.3	1.2	1.0	1.0	1.1	1.2	1.5
Black	3.6*	4.2*	1.3*	2.3*	1.8*	4.0*	1.7*	2.0*	2.1*	4.2*

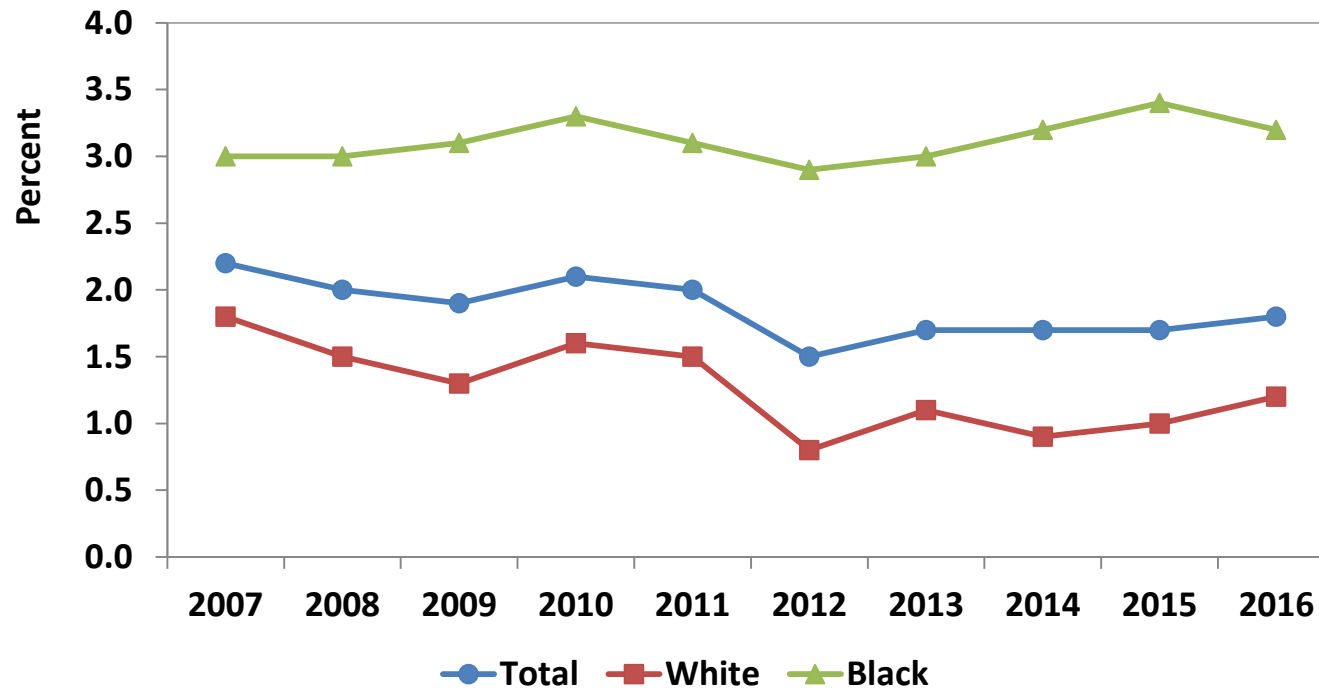
\*Numerator is less than 20, the percent is unstable. We do not recommend comparing unstable percentages.

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother Lake County Residents, 2007 – 2016



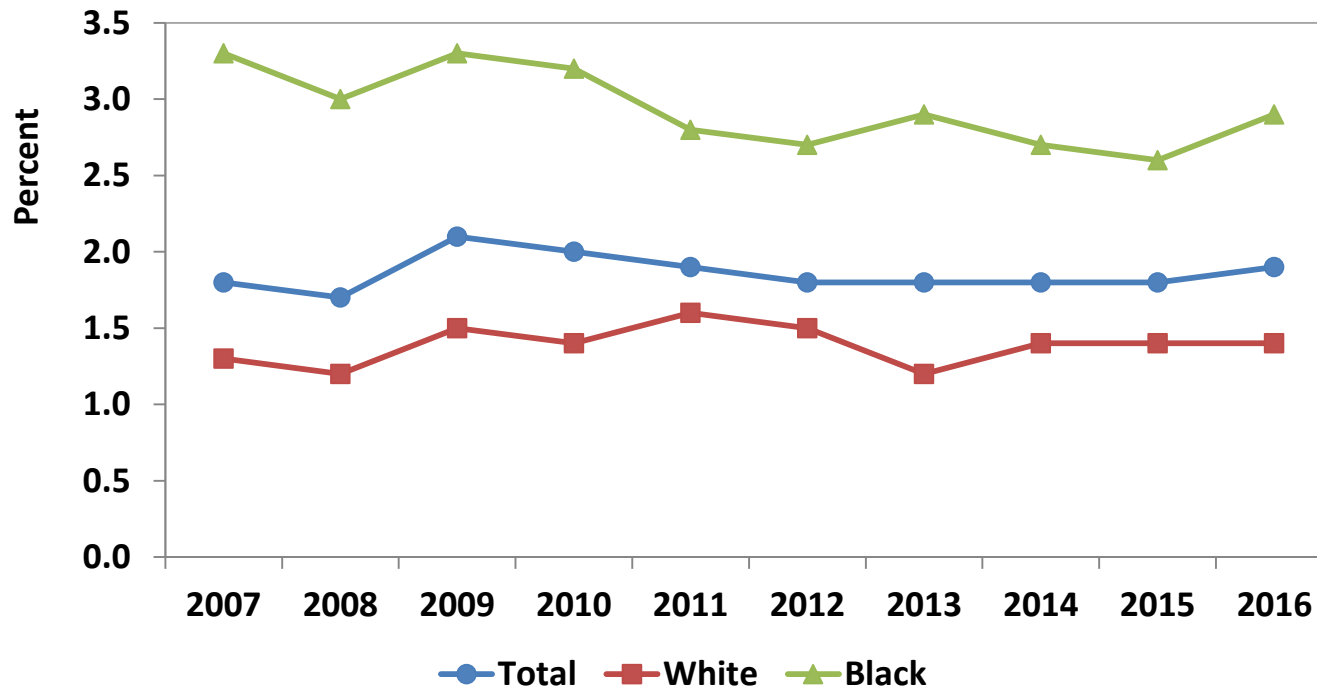
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.2	2.0	1.9	2.1	2.0	1.5	1.7	1.7	1.7	1.8
<b>White</b>	1.8	1.5	1.3	1.6	1.5	0.8	1.1	0.9	1.0	1.2
<b>Black</b>	3.0	3.0	3.1	3.3	3.1	2.9	3.0	3.2	3.4	3.2

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother Marion County Residents, 2007 – 2016



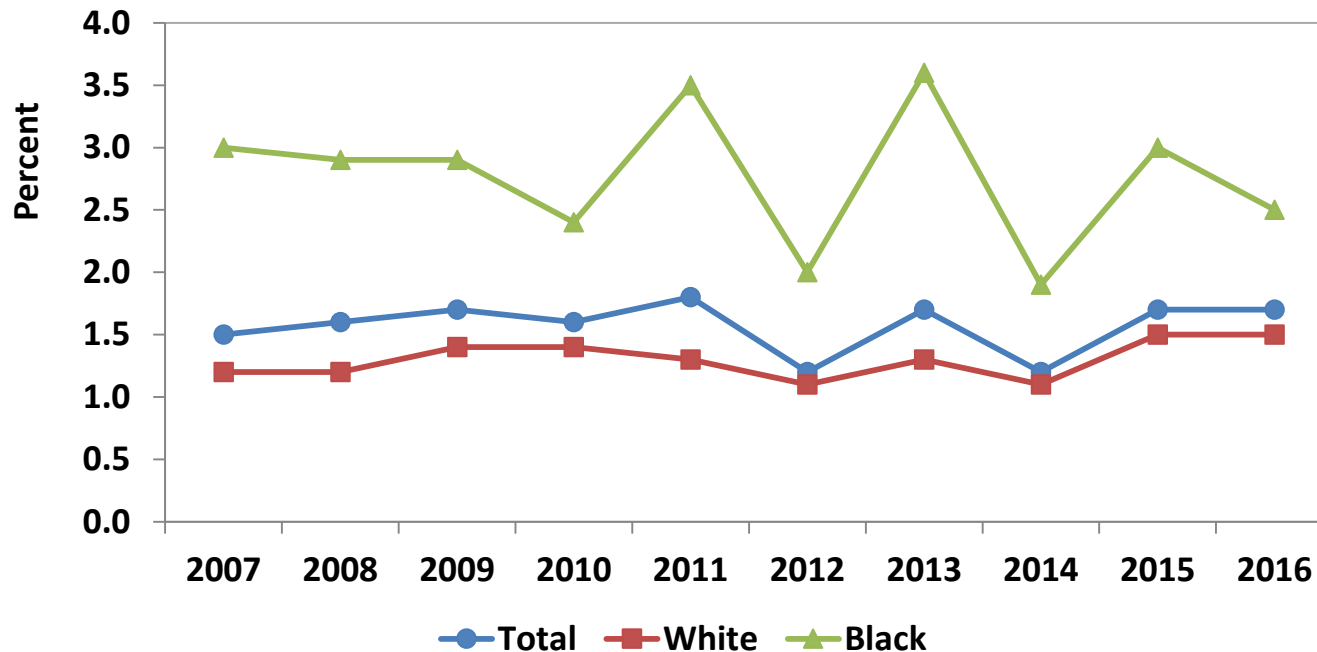
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	1.8	1.7	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.9
<b>White</b>	1.3	1.2	1.5	1.4	1.6	1.5	1.2	1.4	1.4	1.4
<b>Black</b>	3.3	3.0	3.3	3.2	2.8	2.7	2.9	2.7	2.6	2.9

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Race of Mother St. Joseph County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	1.5	1.6	1.7	1.6	1.8	1.2	1.7	1.2	1.7	1.7
<b>White</b>	1.2	1.2	1.4	1.4	1.3	1.1	1.3	1.1	1.5	1.5
<b>Black</b>	3.0	2.9	2.9	2.4*	3.5	2.0	3.6	1.9*	3.0	2.5*

\*Numerator is less than 20, the percent is unstable. We do not recommend comparing unstable percentages.

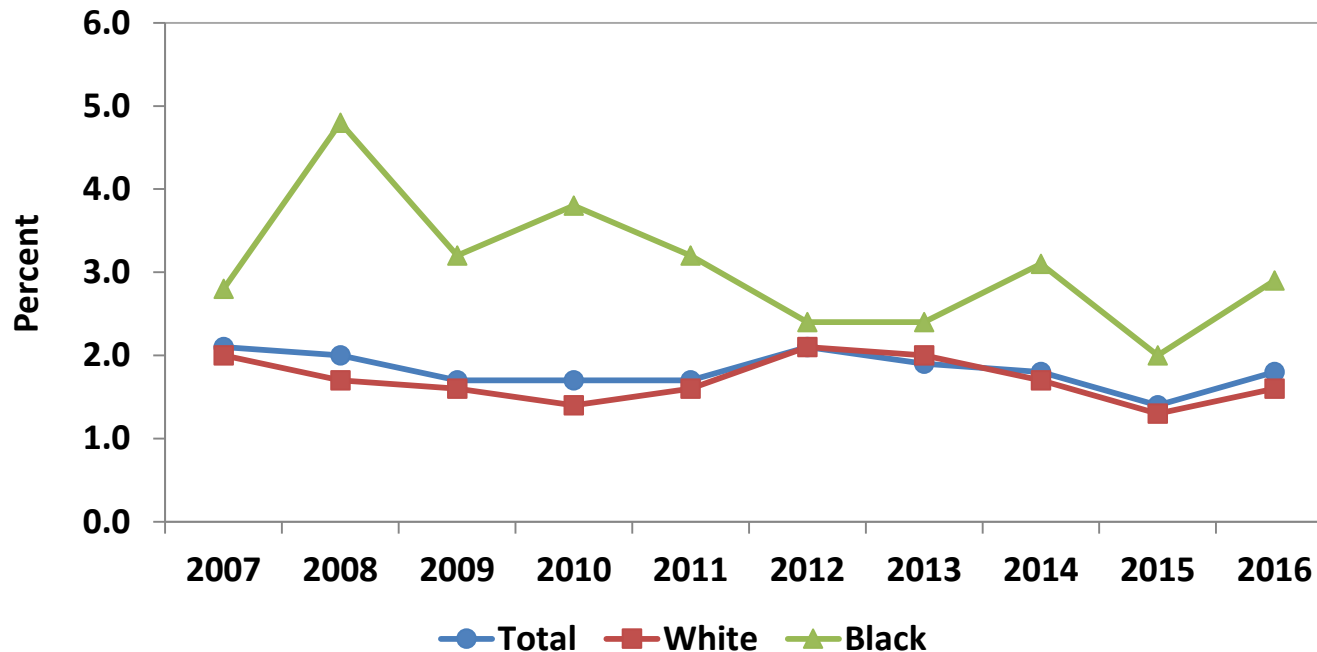
Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Percent of Very Low Birthweight Infants by Race of Mother Vanderburgh County Residents, 2007 – 2016



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Total</b>	2.1	2.0	1.7	1.7	1.7	2.1	1.9	1.8	1.4	1.8
<b>White</b>	2.0	1.7	1.6	1.4	1.6	2.1	2.0	1.7	1.3	1.6
<b>Black</b>	2.8*	4.8*	3.2*	3.8*	3.2*	2.4*	2.4*	3.1*	2.0*	2.9*

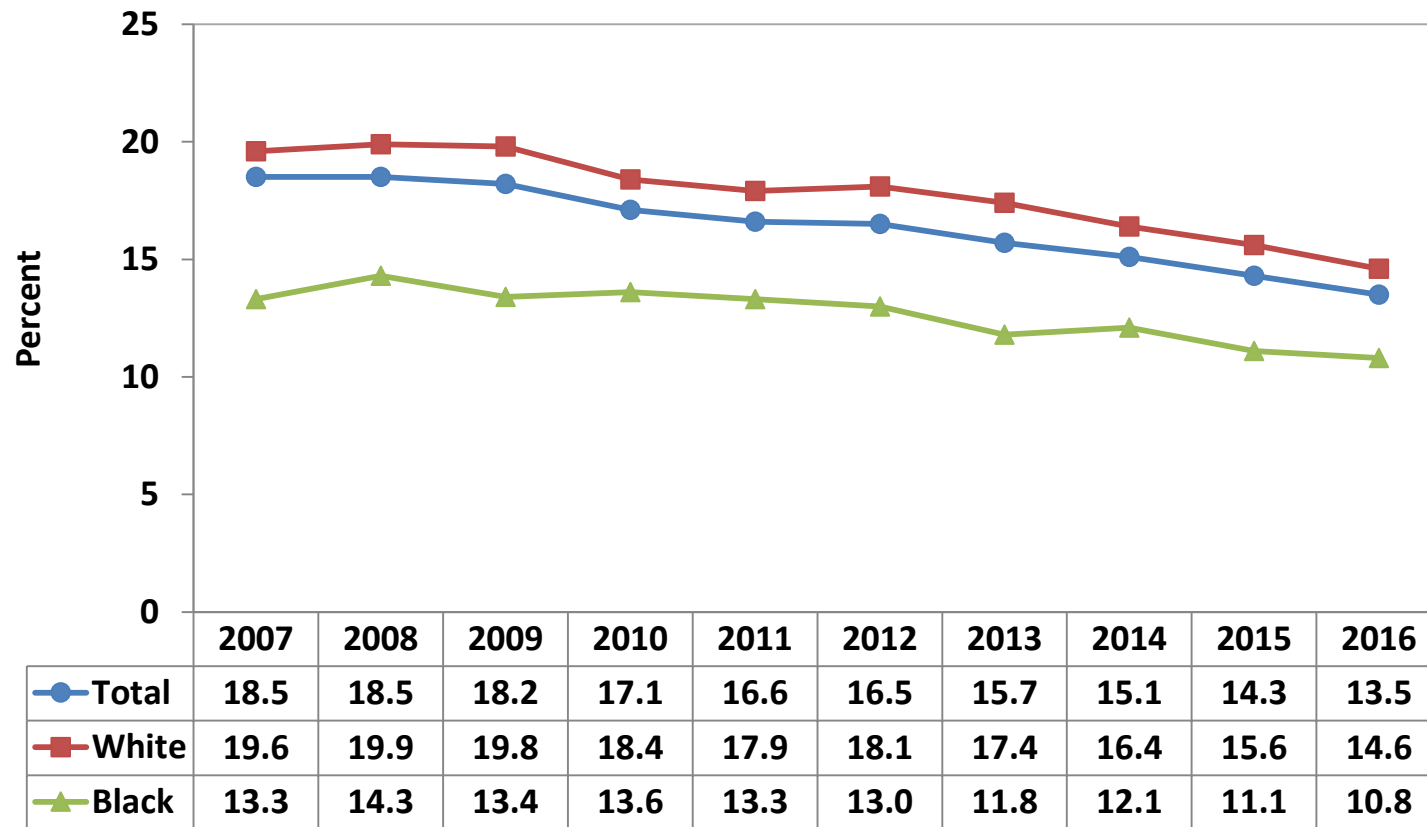
\*Numerator is less than 20, the percent is unstable. We do not recommend comparing unstable percentages.

Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.)

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

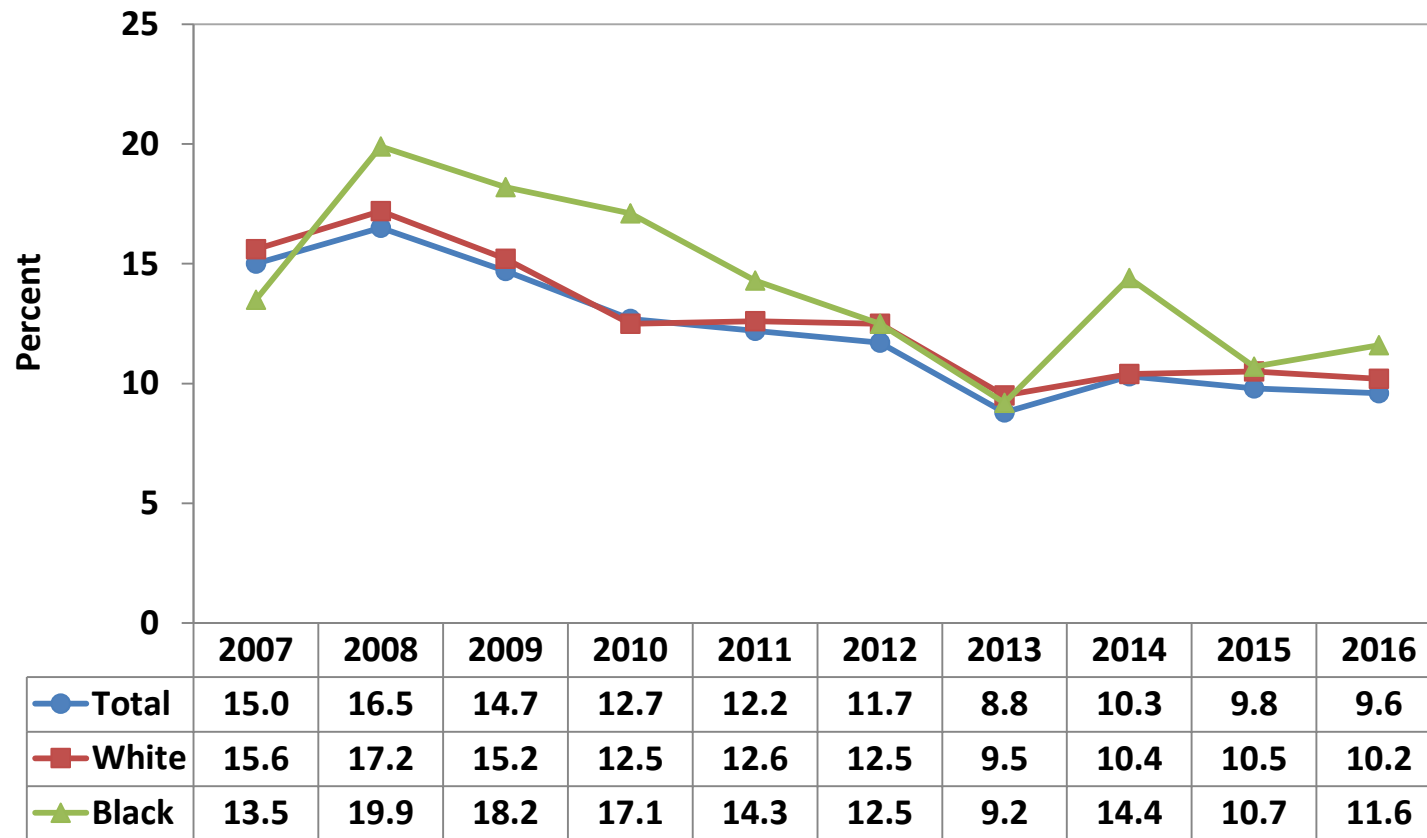
# Percent of Births to Mothers Who Smoked During Pregnancy by Race Indiana Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

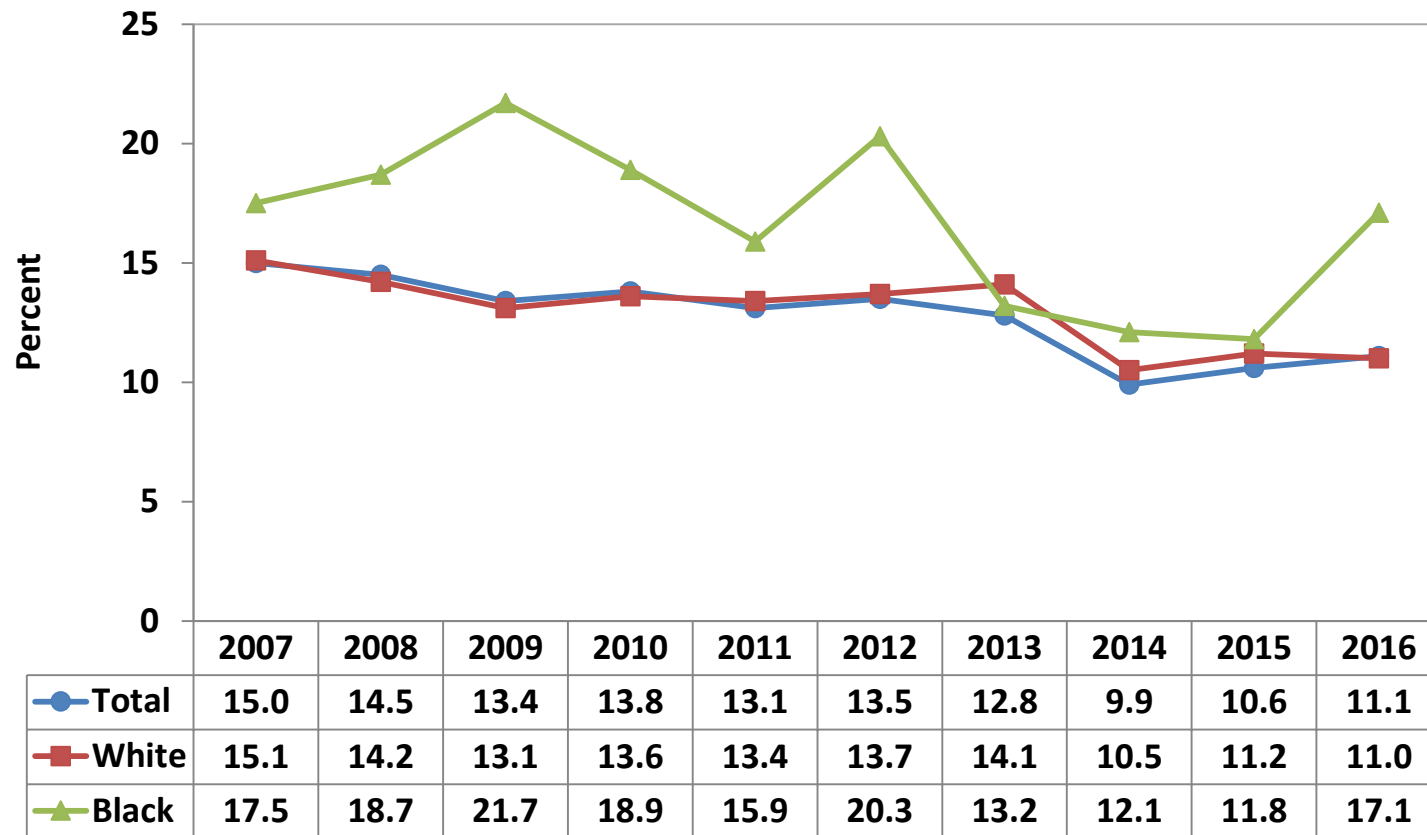
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

# Percent of Births to Mothers Who Smoked During Pregnancy by Race Allen County Residents, 2007 – 2016



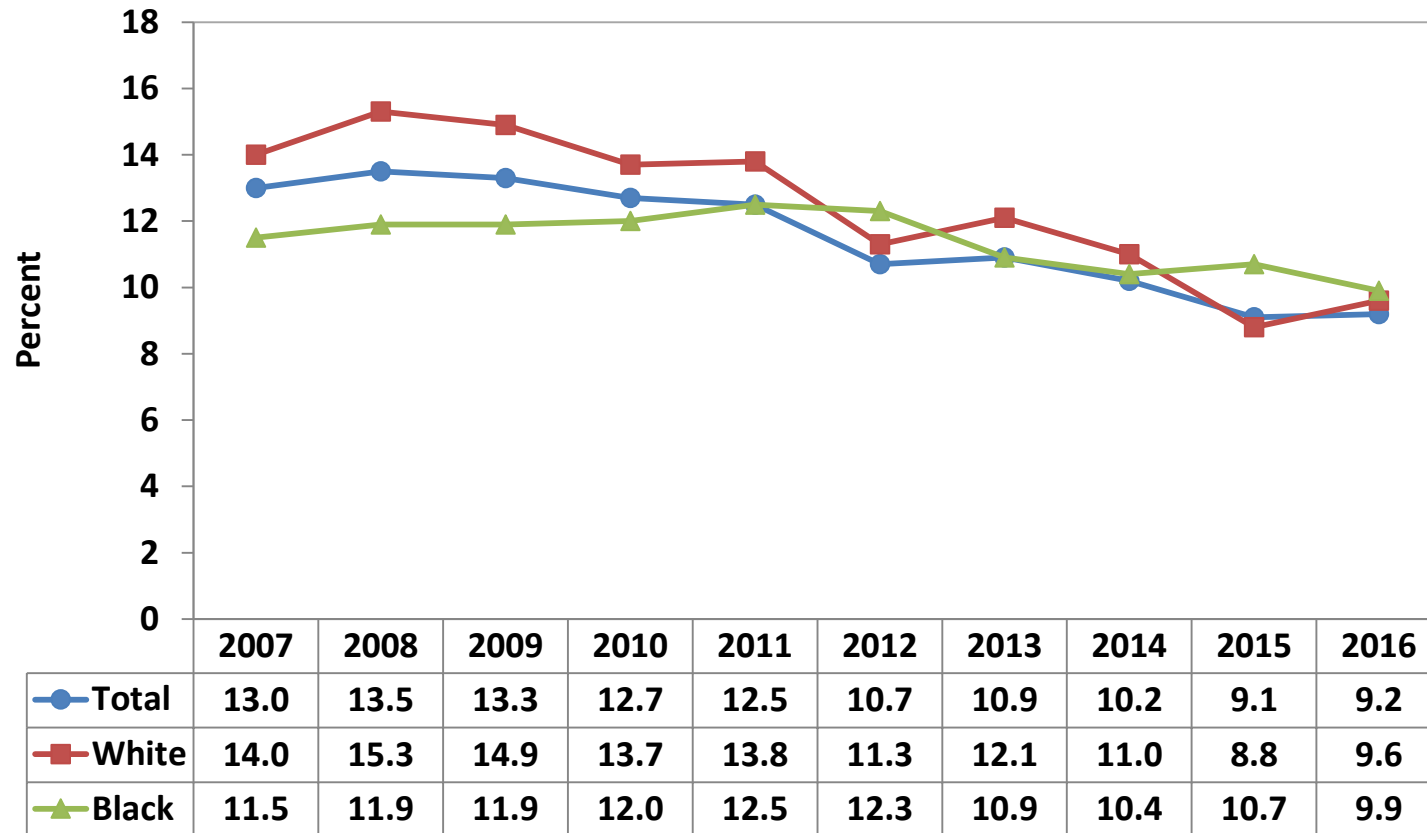
Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

# Percent of Births to Mothers Who Smoked During Pregnancy by Race Elkhart County Residents, 2007 – 2016



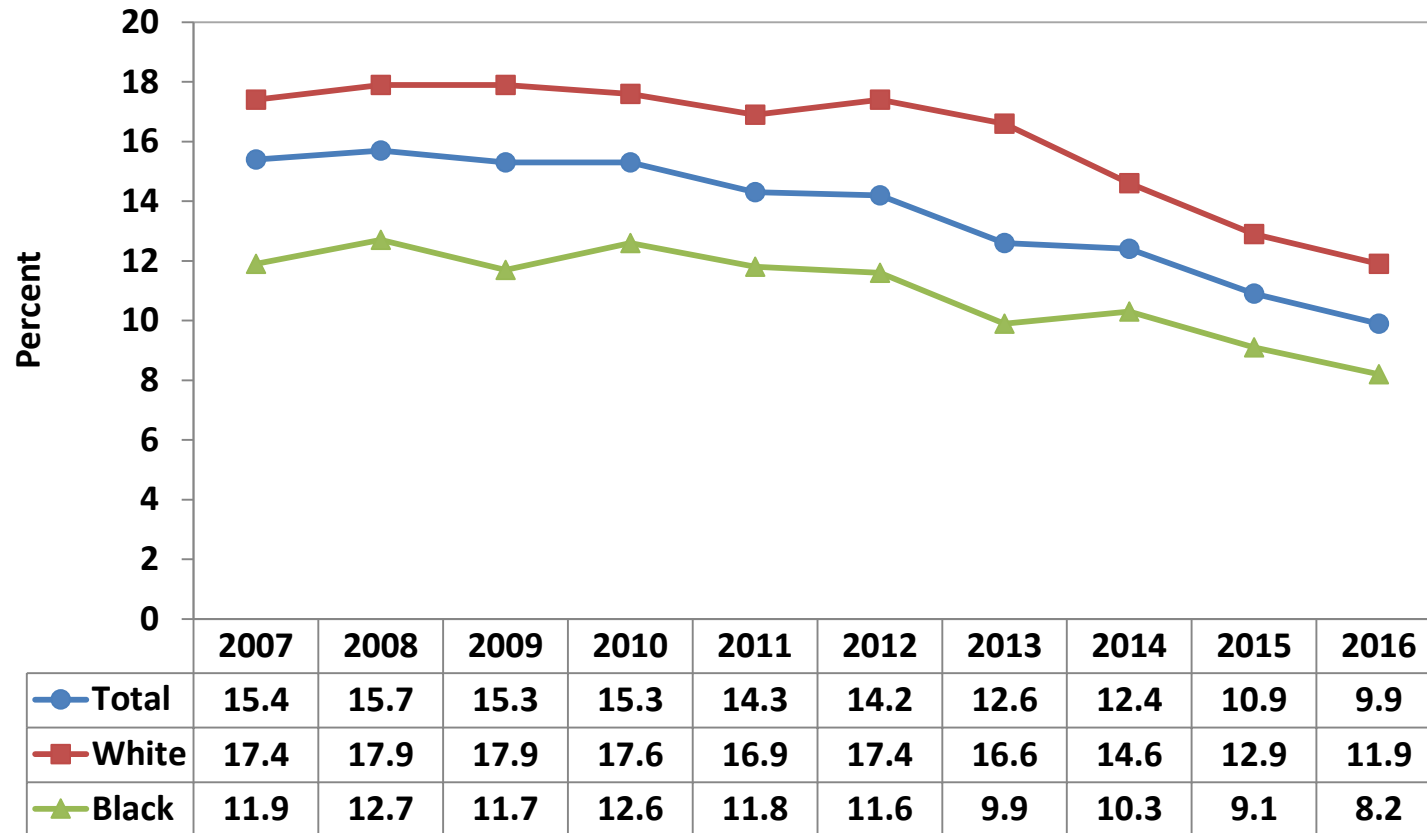
Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

# Percent of Births to Mothers Who Smoked During Pregnancy by Race Lake County Residents, 2007 – 2016



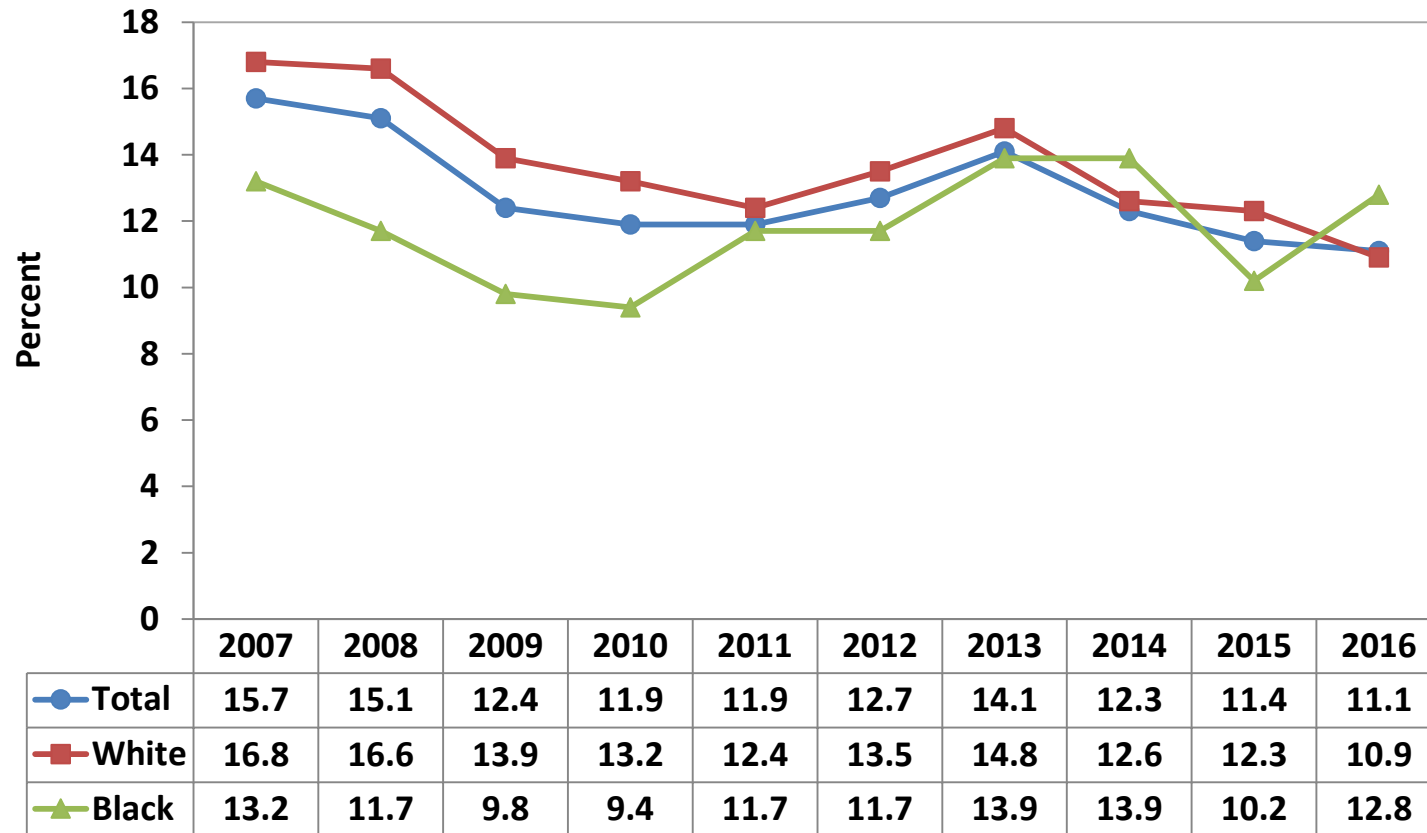
Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

# Percent of Births to Mothers Who Smoked During Pregnancy by Race Marion County Residents, 2007 – 2016



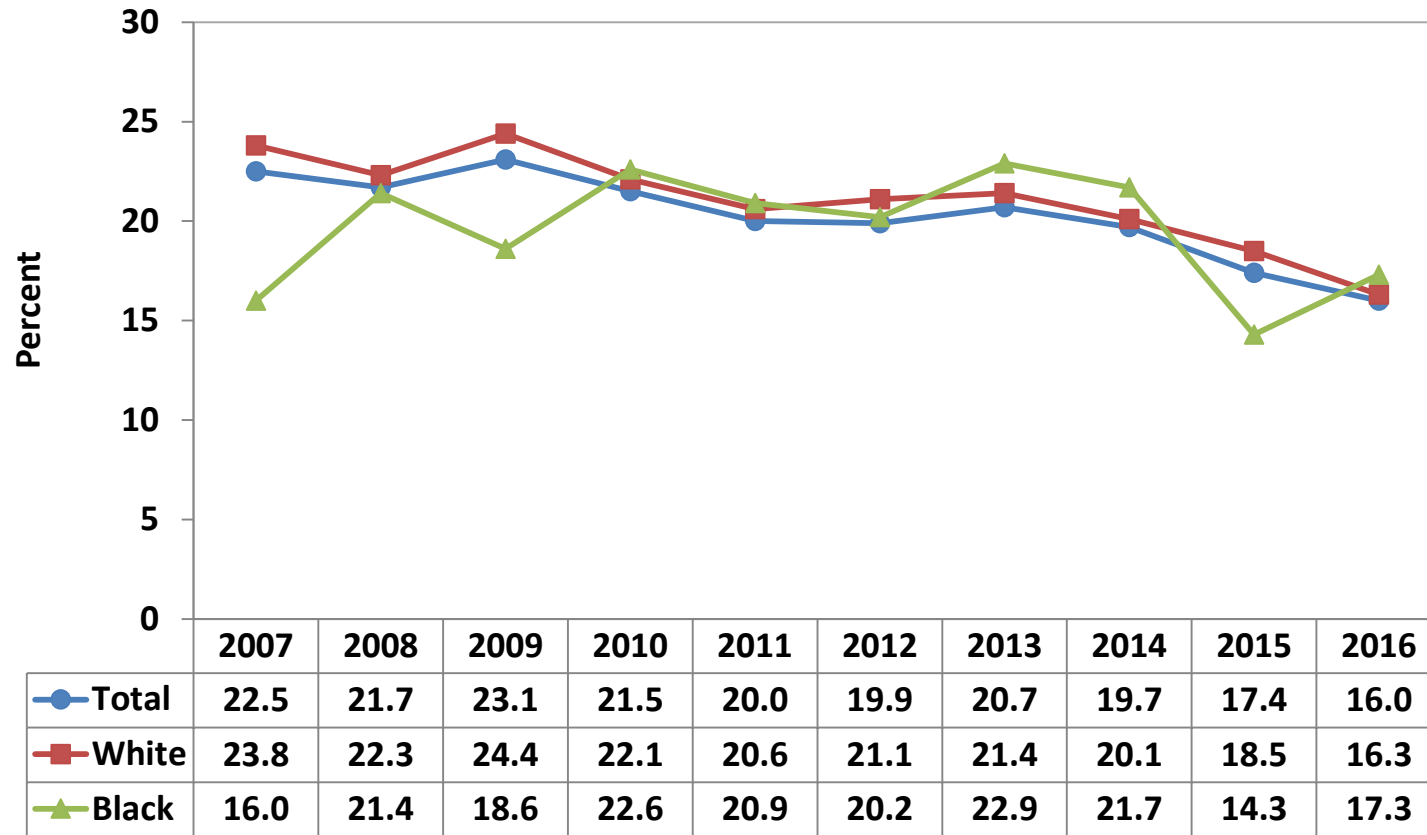
Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

# Percent of Births to Mothers Who Smoked During Pregnancy by Race St. Joseph County Residents, 2007 – 2016



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

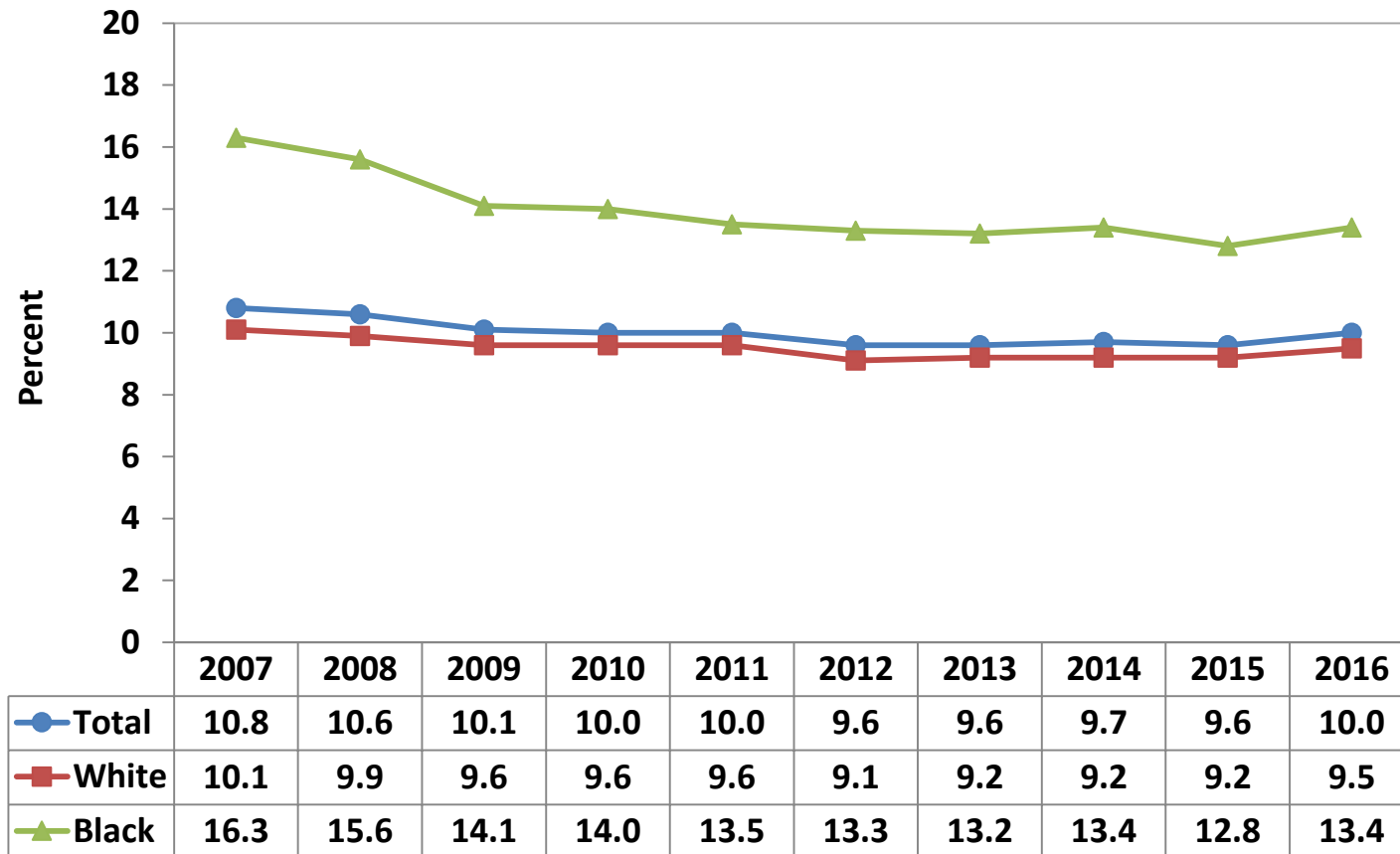
# **Percent of Births to Mothers Who Smoked During Pregnancy by Race Vanderburgh County Residents, 2007 – 2016**



Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018  
Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Percent of Preterm\* Births by Race of Mother Indiana Residents, 2007 – 2016



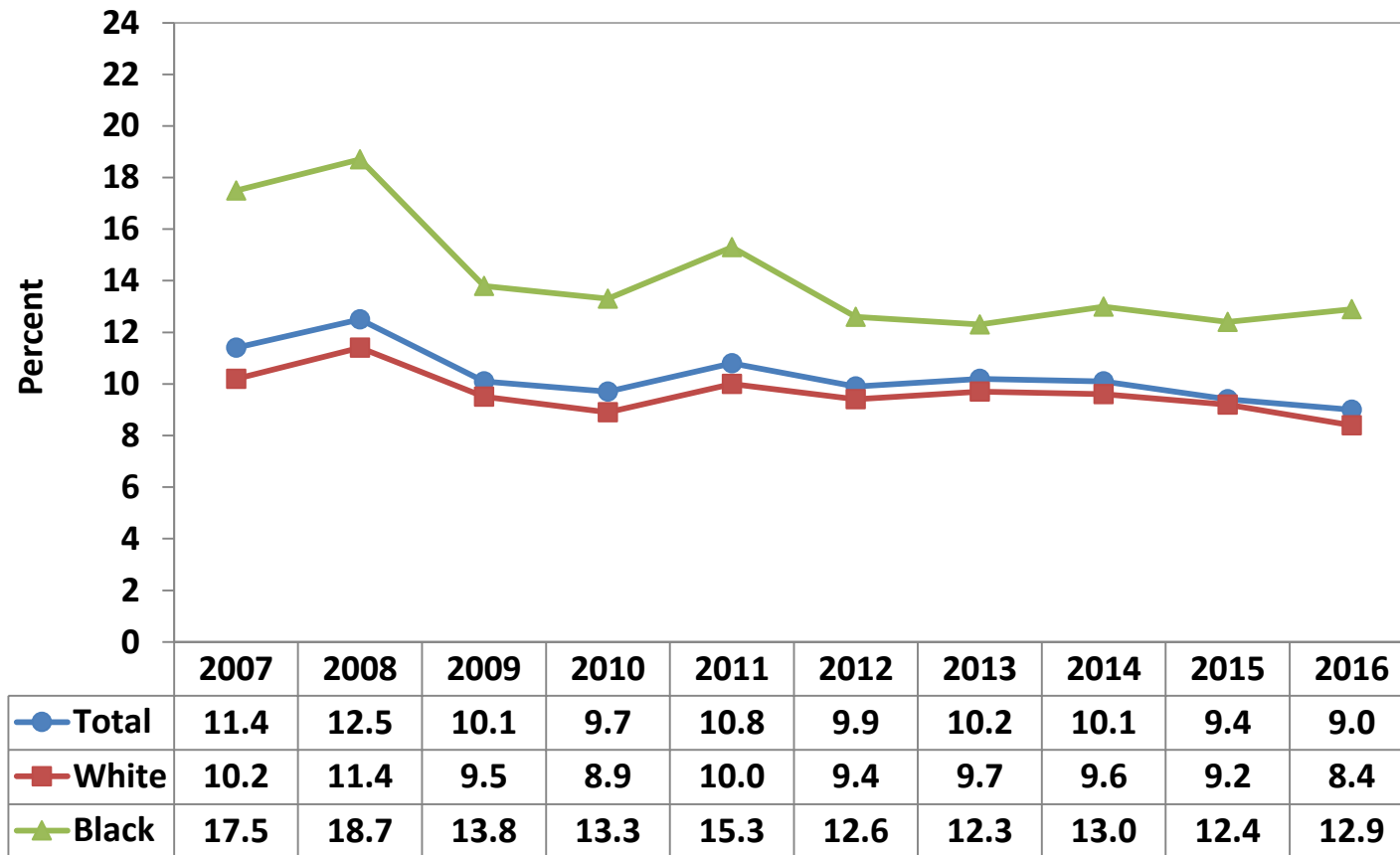
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm\* Births by Race of Mother Allen County Residents, 2007 – 2016



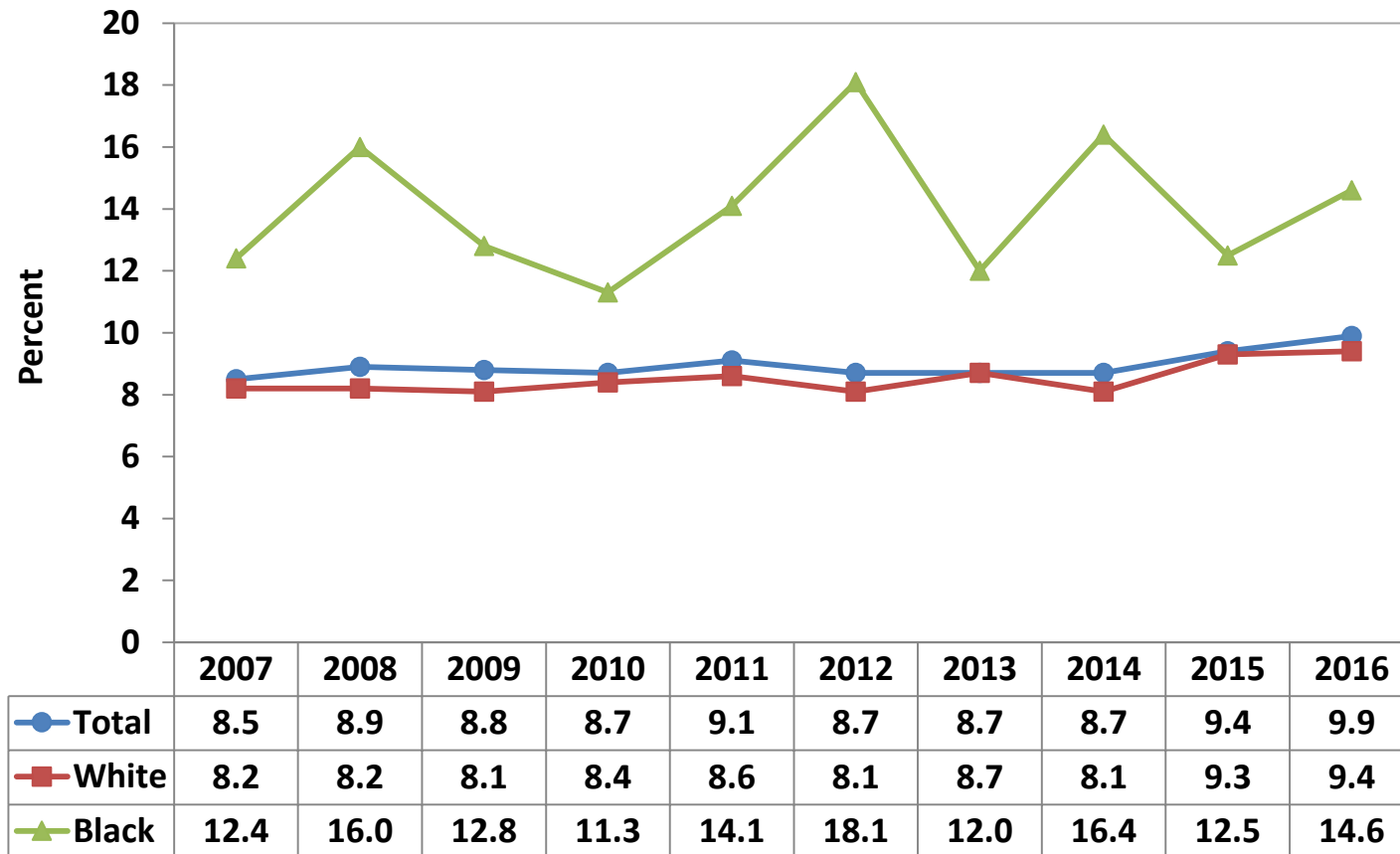
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm\* Births by Race of Mother Elkhart County Residents, 2007 – 2016



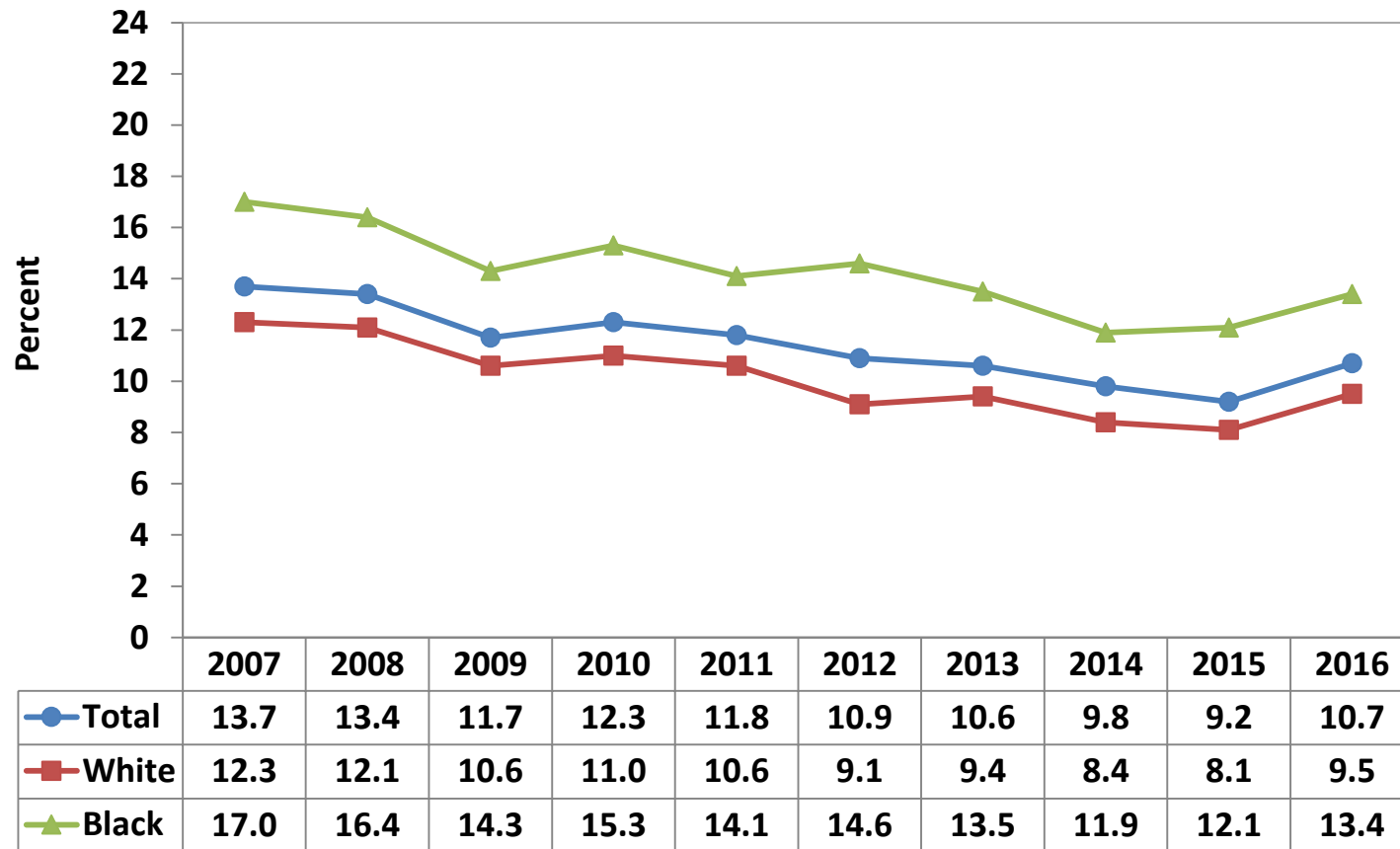
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of \*Preterm Births by Race of Mother Lake County Residents, 2007 – 2016



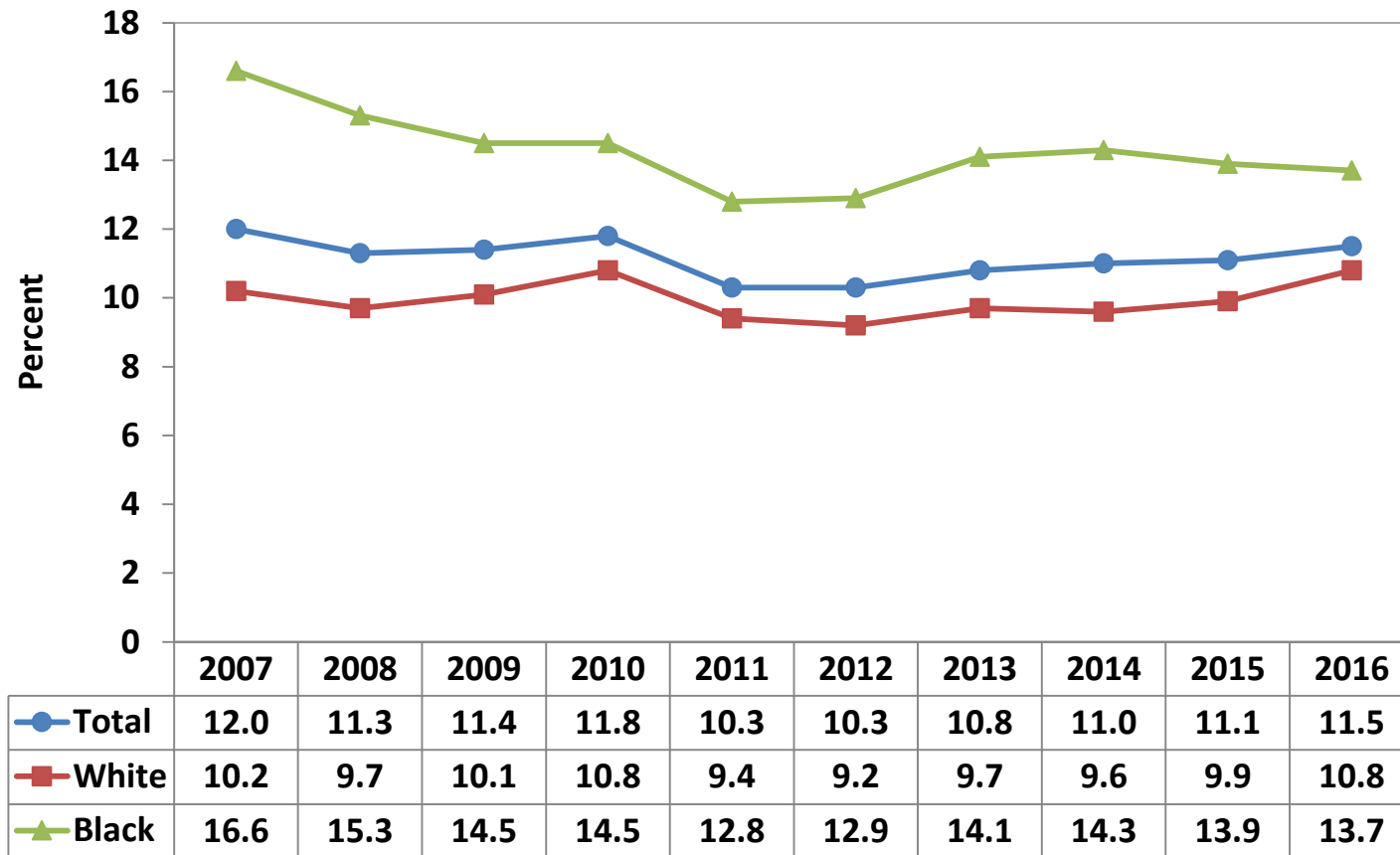
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm\* Births by Race of Mother Marion County Residents, 2007 – 2016



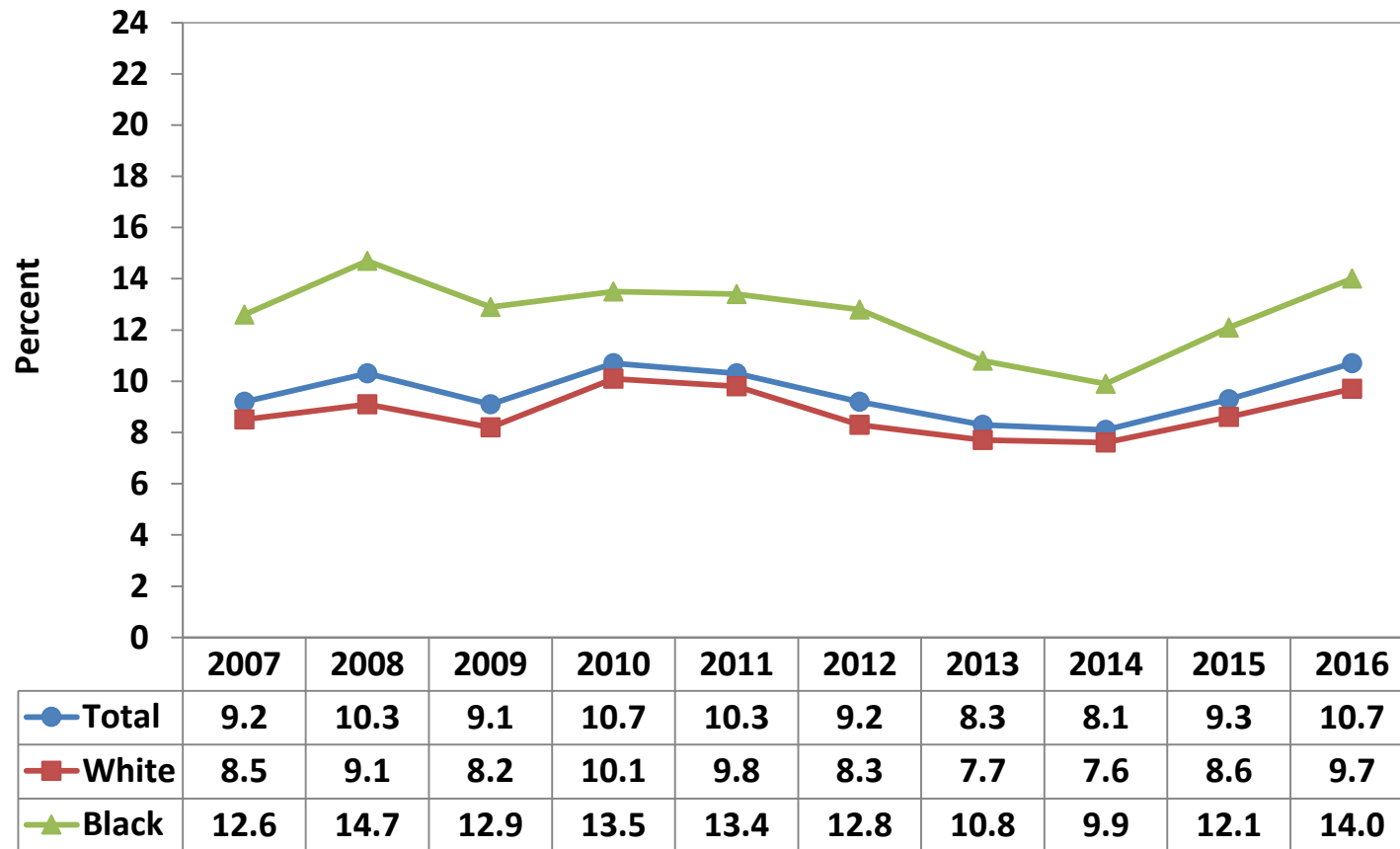
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm\* Births by Race of Mother St. Joseph County Residents, 2007 – 2016



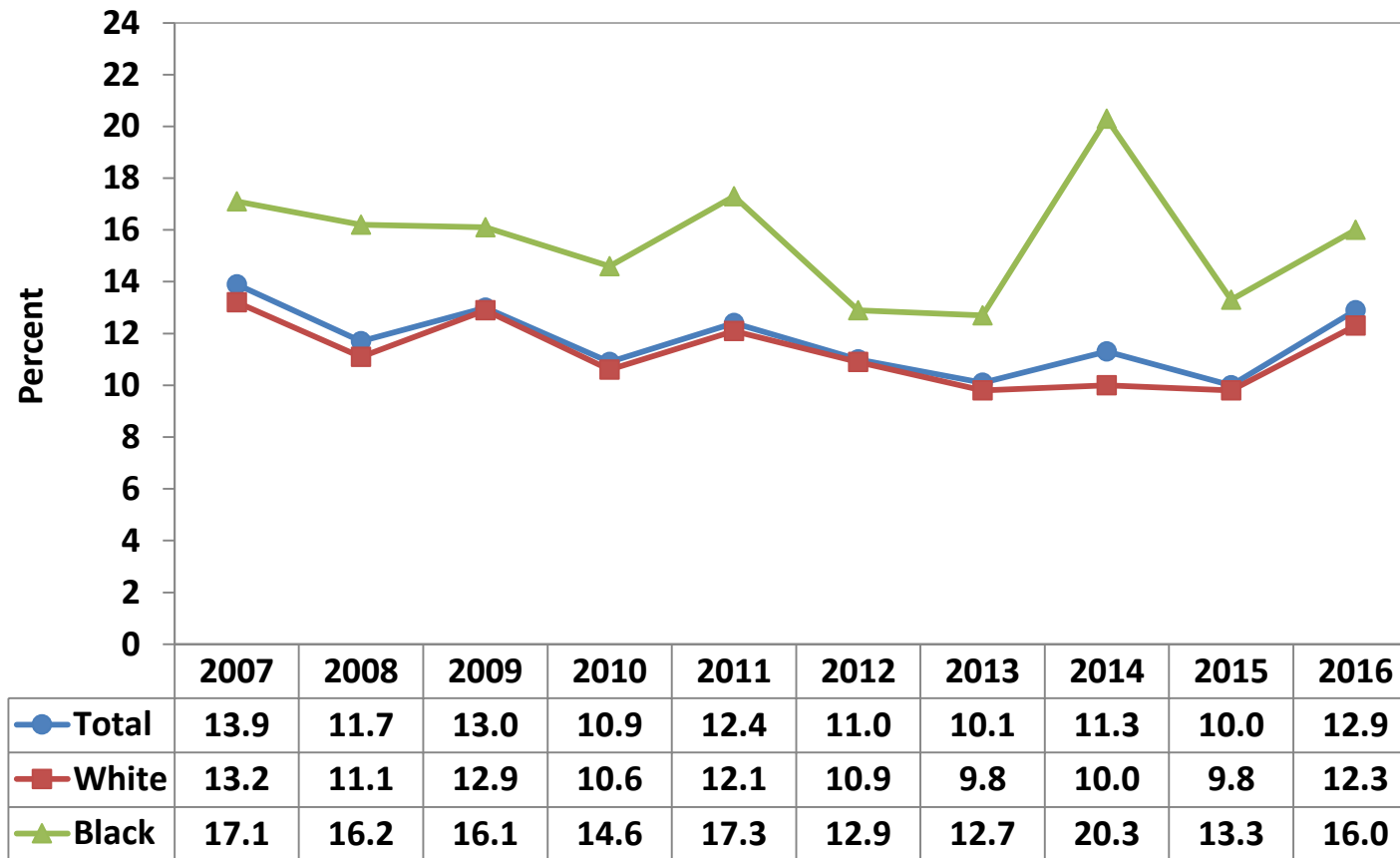
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm\* Births by Race of Mother Vanderburgh County Residents, 2007 – 2016



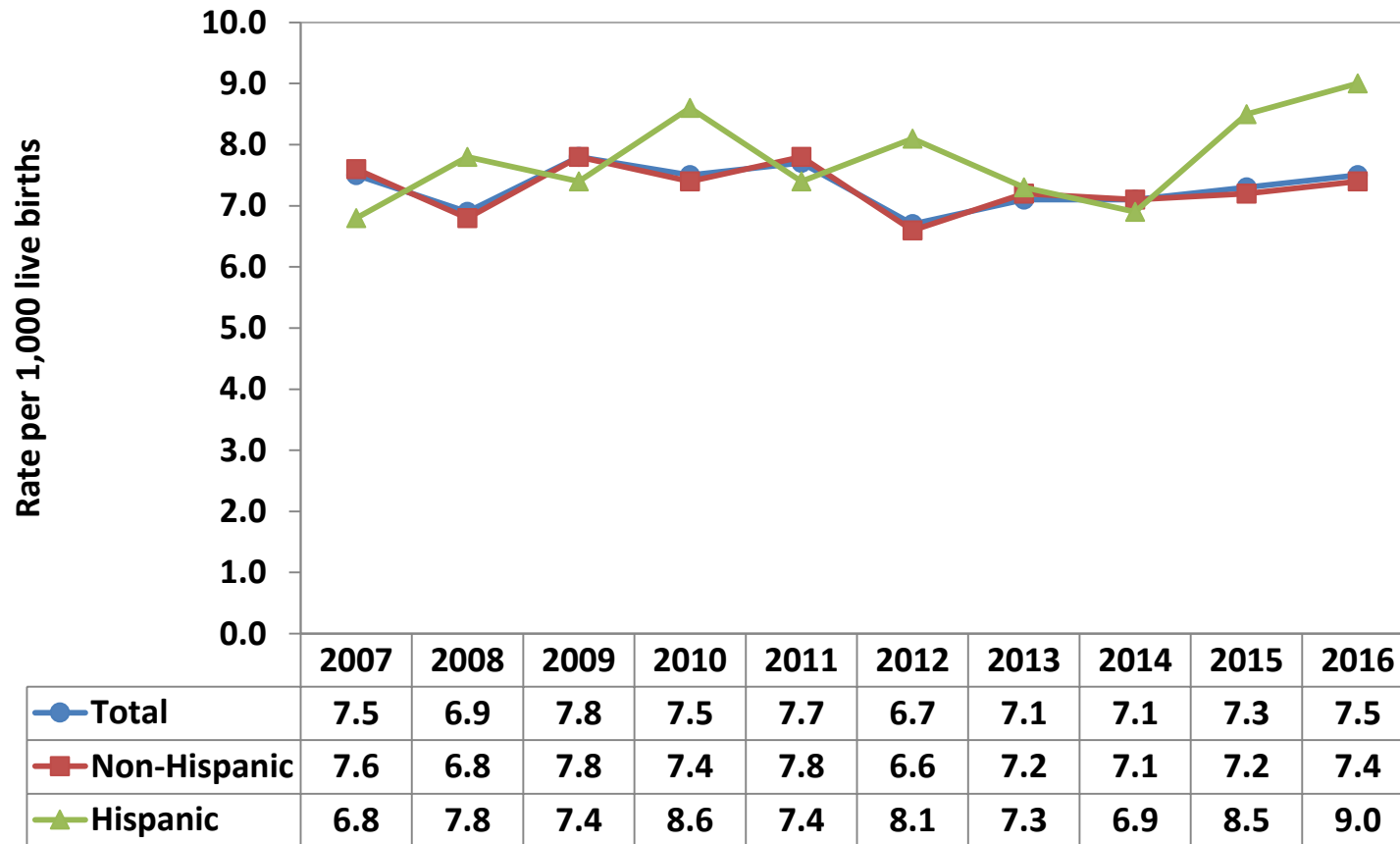
\*Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Infant Mortality Rates by Ethnicity Indiana Residents, 2007 – 2016



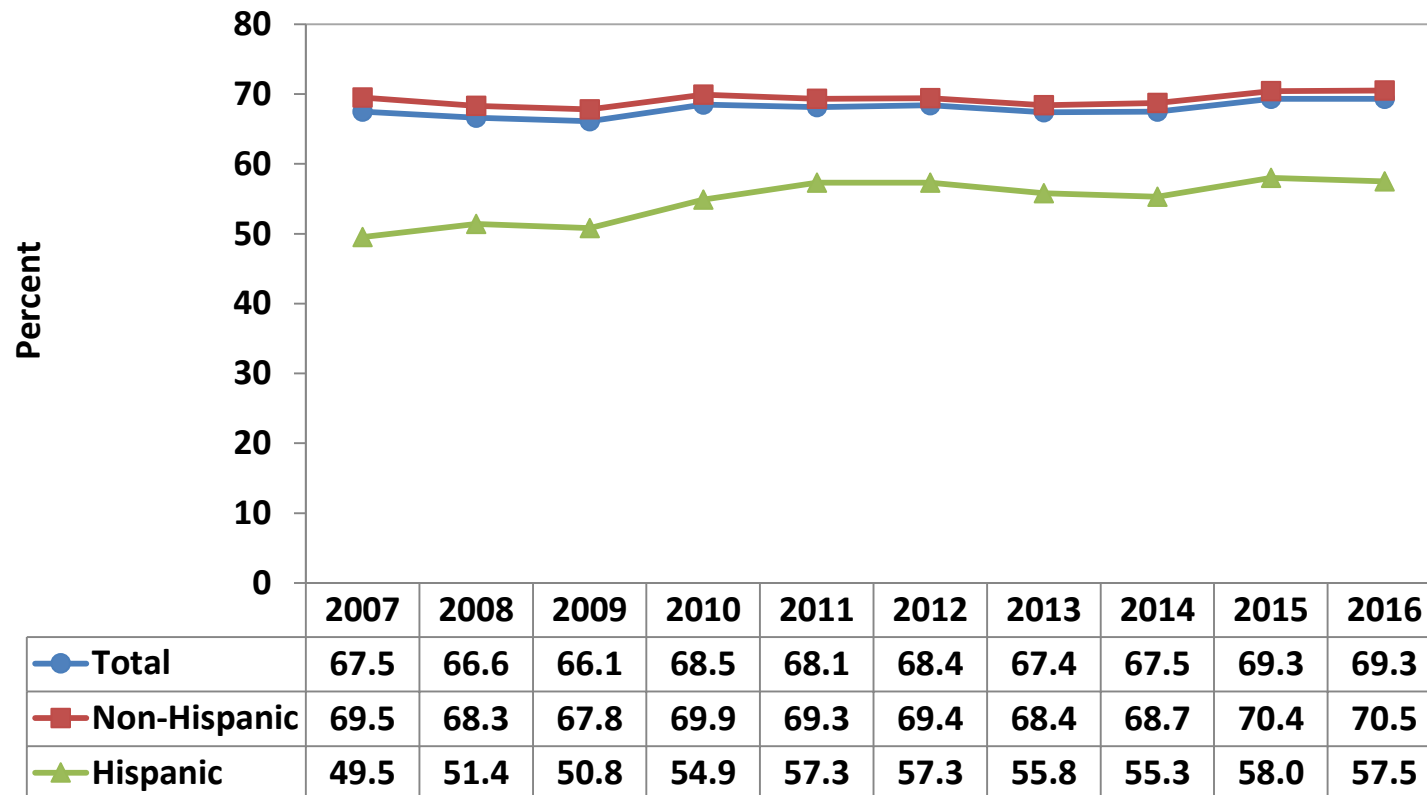
Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team



## Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester by Ethnicity Indiana Residents, 2007 – 2016

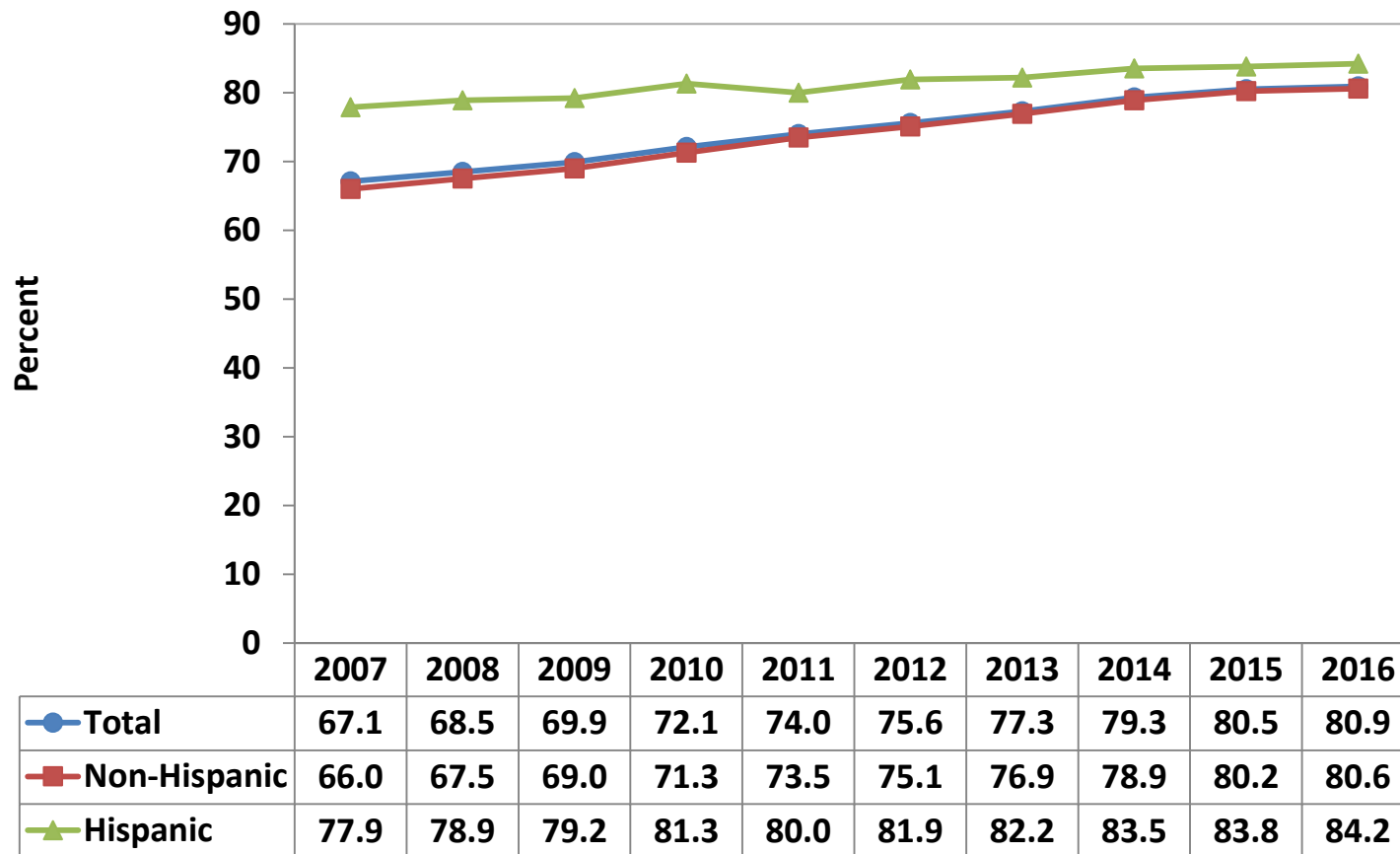


Note: Hispanic ethnicity can be of any race. The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Mothers Who Breastfed Their Infants at Hospital Discharge by Ethnicity Indiana Residents, 2007 – 2016

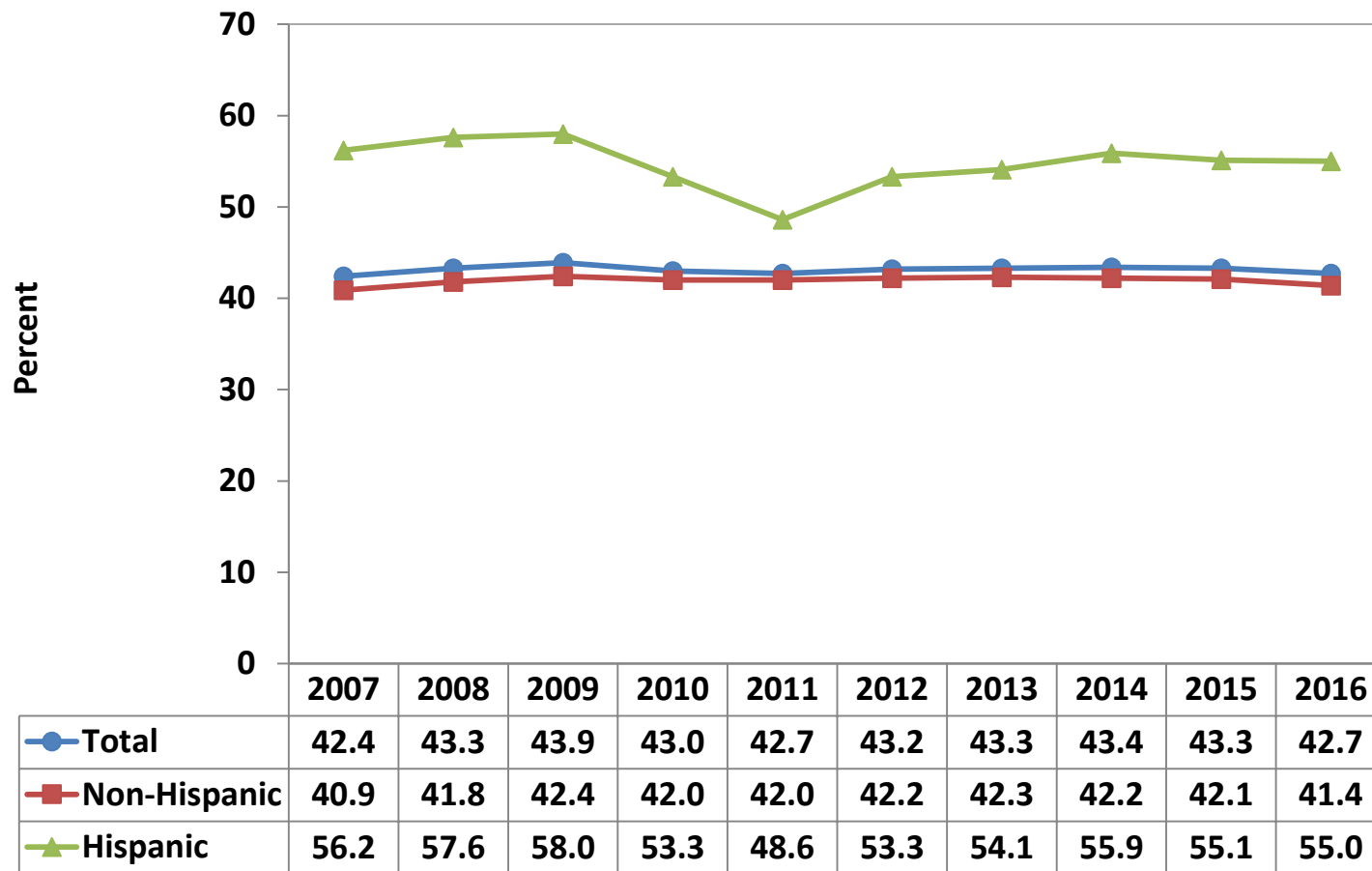


Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Live Births to Unmarried Mothers by Ethnicity of Mother Indiana Residents, 2007 – 2016

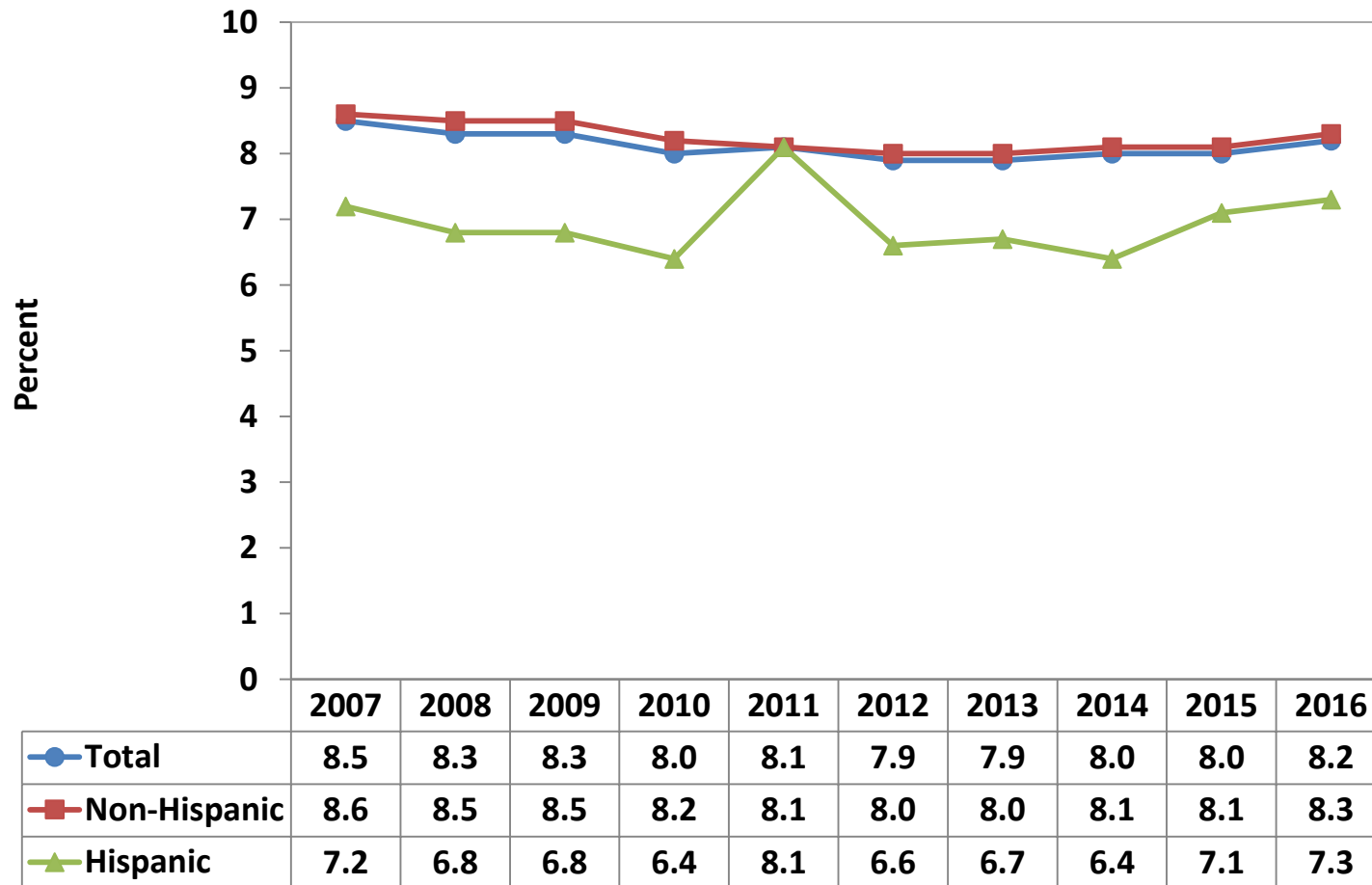


Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Low Birthweight Infants by Ethnicity of Mother Indiana Residents, 2007 – 2016

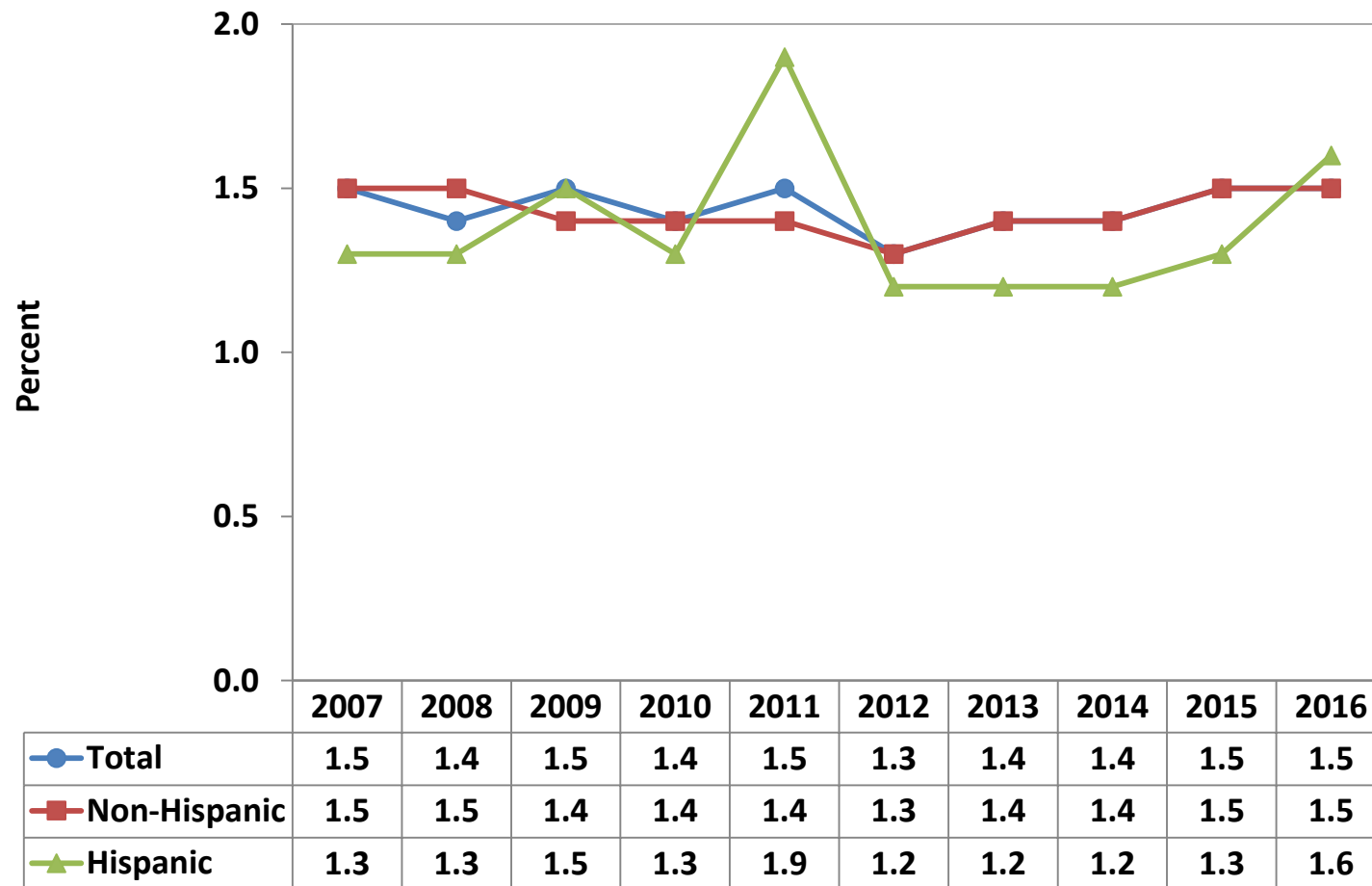


Note: Low birthweight is less than 2,500 grams (5 lb. 8 oz.) Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Very Low Birthweight Infants by Ethnicity of Mother Indiana Residents, 2007 – 2016

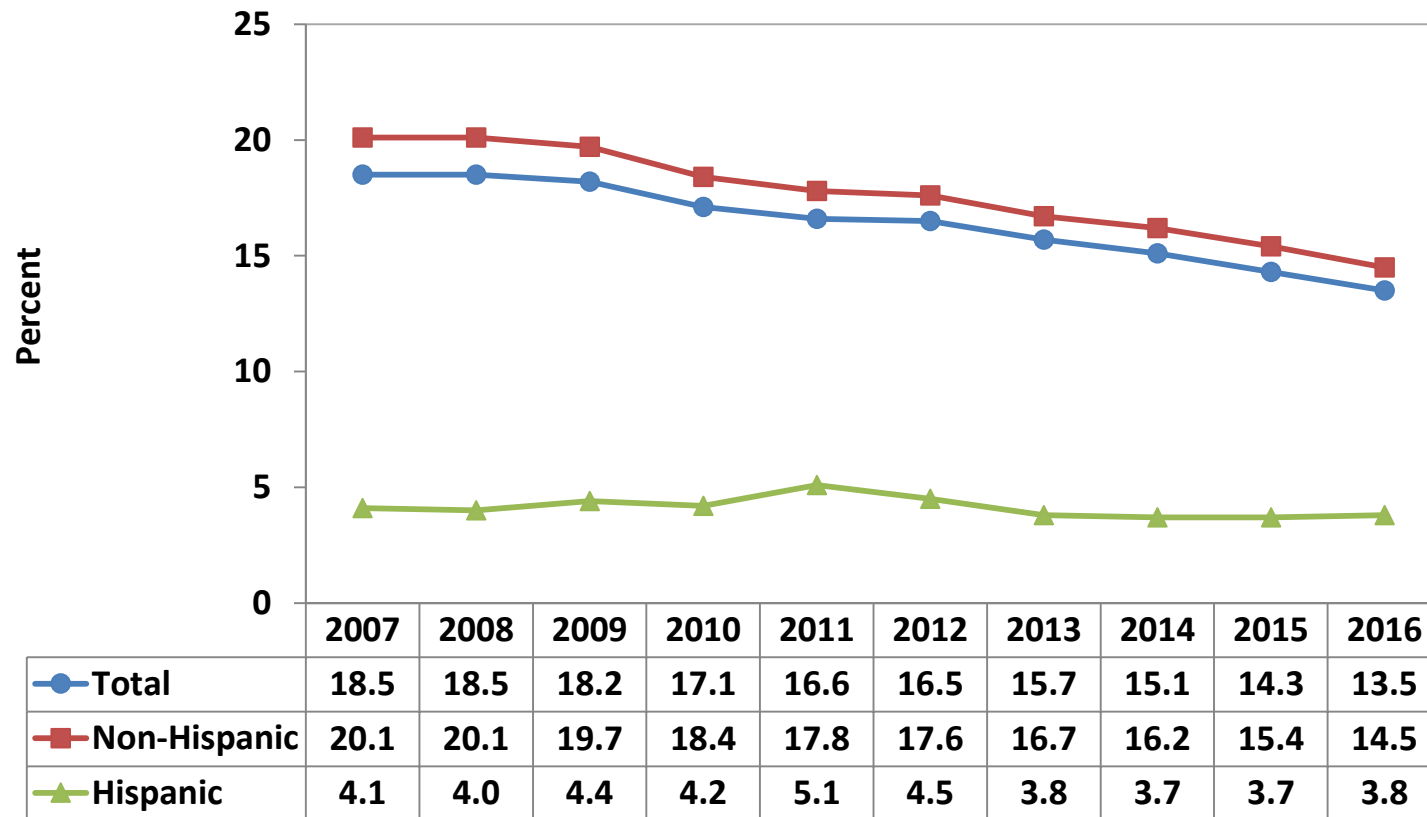


Note: Very low birthweight is less than 1,500 grams (3 lb. 5 oz.) Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Births to Mothers Who Smoked During Pregnancy by Ethnicity Indiana Residents, 2007 – 2016

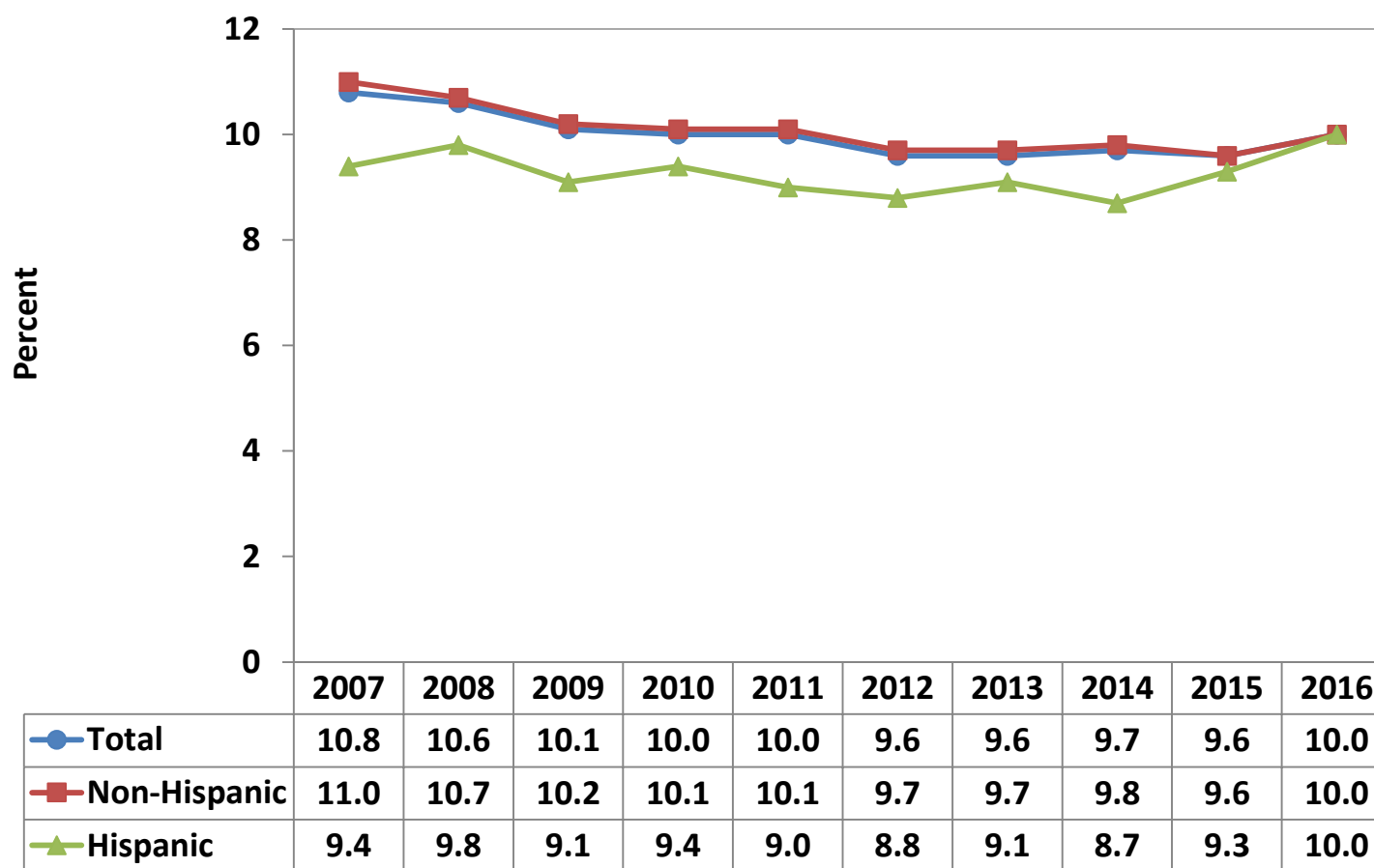


Note: Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

## Percent of Preterm Births\* by Ethnicity of Mother Indiana Residents, 2007 – 2016



\* Preterm birth data in this report were calculated using the obstetrical estimate of gestation (clinical estimate of gestation) and are not comparable to previous MCH Outcomes Reports. Preterm birth data in this report are not comparable to NCHS and March of Dimes reports. Please see Preface for more details.

Note: Preterm birth is the delivery of a liveborn infant prior to 37 weeks gestation. Hispanic ethnicity can be of any race.

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team





**Live Births by County of Residence  
Indiana Residents, 2007 – 2016  
Total Population**

County	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2006 - 2016 Average
<b>INDIANA</b>	<b>89,719</b>	<b>88,679</b>	<b>86,126</b>	<b>83,867</b>	<b>83,750</b>	<b>83,250</b>	<b>83,115</b>	<b>83,927</b>	<b>84,008</b>	<b>83,063</b>	<b>84,950</b>
Adams	667	673	643	661	658	700	673	675	662	676	669
Allen	5,448	5,506	5,463	5,312	5,252	5,251	5,080	5,229	5,270	5,140	5,295
Bartholomew	1,086	1,095	1,023	1,013	1,004	1,084	1,069	1,052	1,096	1,086	1,061
Benton	104	119	92	96	106	98	119	109	107	114	106
Blackford	156	148	142	151	145	140	146	136	121	133	142
Boone	708	741	706	660	701	728	726	786	773	827	736
Brown	137	137	139	100	121	126	126	97	120	114	122
Carroll	230	227	219	214	212	236	200	220	195	218	217
Cass	545	539	517	494	510	514	471	515	495	480	508
Clark	1,450	1,479	1,525	1,407	1,448	1,436	1,538	1,433	1,487	1,448	1,465
Clay	291	330	294	328	307	320	310	306	346	312	314
Clinton	534	518	487	444	396	483	432	461	465	445	467
Crawford	124	122	121	106	110	120	108	135	118	104	117
Daviess	547	536	512	501	559	534	527	531	519	536	530
Dearborn	602	641	372	521	558	530	483	510	536	500	525
Decatur	318	361	315	305	319	317	366	333	352	382	337
DeKalb	571	522	565	534	510	485	535	562	530	535	535
Delaware	1,340	1,268	1,307	1,245	1,294	1,225	1,277	1,231	1,188	1,173	1,255
Dubois	539	543	533	515	508	508	540	573	572	564	540
Elkhart	3,557	3,430	3,163	3,006	2,976	3,048	2,961	3,109	3,188	3,130	3,157
Fayette	304	281	278	262	241	229	254	249	248	206	255
Floyd	878	918	853	912	893	875	873	873	909	915	890
Fountain	209	223	217	190	181	180	219	180	200	168	197
Franklin	310	254	137	245	250	253	243	250	226	260	243
Fulton	267	285	279	261	220	253	257	279	260	238	260
Gibson	452	377	404	396	437	402	424	433	388	420	413
Grant	866	816	840	778	805	734	832	747	757	688	786
Greene	401	369	376	353	364	353	329	346	337	326	355
Hamilton	3,926	3,910	3,861	3,787	3,887	3,689	3,917	3,888	3,902	3,853	3,862
Hancock	897	848	810	757	781	759	759	732	824	790	796

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

**Live Births by County of Residence  
Indiana Residents, 2007 – 2016  
Total Population**

County	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2007 - 2016 Average
<b>INDIANA</b>	<b>89,719</b>	<b>88,679</b>	<b>86,126</b>	<b>83,867</b>	<b>83,750</b>	<b>83,250</b>	<b>83,115</b>	<b>83,927</b>	<b>84,008</b>	<b>83,063</b>	<b>84,950</b>
Harrison	473	481	436	400	429	390	414	452	452	468	440
Hendricks	1,859	1,844	1,787	1,728	1,808	1,653	1,723	1,797	1,761	1,762	1,772
Henry	506	541	544	463	456	476	502	483	476	471	492
Howard	1,131	1,122	994	1,000	971	1,033	980	1,003	978	993	1,021
Huntington	488	453	423	417	409	435	424	428	434	417	433
Jackson	584	583	551	564	532	583	591	620	576	635	582
Jasper	430	387	397	405	394	399	358	385	382	395	393
Jay	320	285	307	296	311	296	296	339	306	291	305
Jefferson	383	381	391	353	344	377	335	388	371	388	371
Jennings	371	374	370	337	349	341	347	363	314	316	348
Johnson	1,913	1,913	1,861	1,776	1,861	1,858	1,831	1,814	1,883	1,881	1,859
Knox	497	481	424	459	454	505	461	484	431	452	465
Kosciusko	1,099	1,154	1,000	977	1,012	1,029	1,038	1,080	1,027	1,017	1,043
LaGrange	783	787	714	791	724	744	788	699	753	738	752
Lake	6,759	6,663	6,724	6,488	6,183	5,991	6,023	6,080	5,910	5,649	6,247
LaPorte	1,438	1,411	1,380	1,309	1,338	1,286	1,319	1,331	1,340	1,310	1,346
Lawrence	507	522	513	485	470	503	461	486	497	496	494
Madison	1,674	1,598	1,631	1,612	1,550	1,461	1,545	1,432	1,510	1,507	1,552
Marion	15,401	15,333	15,346	14,583	14,581	14,585	14,287	14,573	14,432	14,205	14,733
Marshall	667	621	619	575	614	584	559	570	608	590	601
Martin	140	146	123	116	119	141	148	133	130	120	132
Miami	433	416	406	390	366	364	367	378	374	343	384
Monroe	1,388	1,298	1,281	1,318	1,286	1,301	1,265	1,309	1,353	1,302	1,310
Montgomery	493	453	508	445	463	485	463	430	473	456	467
Morgan	877	863	807	772	834	729	722	743	776	816	794
Newton	138	162	137	140	148	155	125	132	171	148	146
Noble	703	703	642	595	578	586	578	630	654	589	626
Ohio	60	57	53	56	44	68	51	52	54	52	55
Orange	264	224	237	216	227	211	268	214	240	236	234
Owen	249	259	236	249	226	210	243	216	228	212	233
Parke	204	187	188	192	187	204	196	195	228	207	199

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

**Live Births by County of Residence  
Indiana Residents, 2007 – 2016  
Total Population**

County	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2007 - 2016 Average
<b>INDIANA</b>	89,719	88,679	86,126	83,867	83,750	83,250	83,115	83,927	84,008	83,063	84,950
Perry	223	209	221	214	218	206	182	177	235	207	209
Pike	152	138	145	149	149	133	154	126	137	145	143
Porter	1,886	1,868	1,772	1,728	1,756	1,779	1,770	1,824	1,714	1,757	1,785
Posey	250	284	283	272	279	290	275	265	285	263	275
Pulaski	160	161	166	149	123	133	143	146	135	131	145
Putnam	418	405	383	353	361	328	375	353	362	390	373
Randolph	338	324	291	312	298	318	298	297	301	295	307
Ripley	369	384	352	374	319	325	328	331	324	348	345
Rush	223	197	164	176	170	198	160	200	188	203	188
St. Joseph	3,762	3,832	3,565	3,500	3,539	3,497	3,557	3,480	3,480	3,573	3,579
Scott	346	327	283	278	304	280	286	266	300	288	296
Shelby	572	538	503	532	555	474	495	522	495	492	518
Spencer	247	245	214	218	256	194	236	249	191	197	225
Starke	317	307	280	277	260	280	252	257	263	279	277
Steuben	411	387	359	354	373	347	410	366	416	416	384
Sullivan	216	235	214	239	232	232	245	247	206	199	227
Switzerland	135	133	136	132	120	115	142	128	126	125	129
Tippecanoe	2,324	2,320	2,230	2,149	2,211	2,316	2,221	2,340	2,388	2,358	2,286
Tipton	173	160	126	158	159	131	137	164	144	160	151
Union	82	87	35	84	82	68	67	82	69	70	73
Vanderburgh	2,468	2,326	2,349	2,346	2,259	2,365	2,263	2,236	2,222	2,262	2,310
Vermillion	175	154	194	172	156	158	175	150	169	155	166
Vigo	1,338	1,321	1,255	1,308	1,309	1,281	1,280	1,315	1,285	1,284	1,298
Wabash	377	390	354	354	358	336	360	330	338	353	355
Warren	78	99	88	91	110	94	80	93	79	80	89
Warrick	685	701	676	715	625	625	633	664	683	638	665
Washington	328	318	319	305	291	316	331	311	332	323	317
Wayne	886	882	875	823	829	832	767	765	788	749	820
Wells	305	359	331	338	365	355	322	336	339	369	342
White	330	280	328	297	298	280	297	276	303	296	299
Whitely	449	390	412	409	365	371	372	412	398	405	398

Source: Indiana State Department of Health, Division of Maternal and Child Health, 2018

Original Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team

**Infant Mortality Rate, Total Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>	<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Floyd	3.9	36	Miami	7.3
2	Hamilton	4.4	38	Clinton	7.5
3	Porter	4.6	38	Noble	7.5
4	Boone	5.3	38	Daviess	7.5
4	Huntington	5.3	41	Jackson	7.6
6	Steuben	5.5	41	Starke	7.6
7	Monroe	5.6	43	Vanderburgh	7.7
8	Lagrange	5.7	44	Dubois	7.8
9	Hendricks	5.8	45	Allen	7.9
9	Whitley	5.8	45	Wayne	7.9
11	Warrick	5.9	47	Montgomery	8.1
11	Dearborn	5.9	48	St. Joseph	8.2
11	Harrison	5.9	49	Delaware	8.3
11	Morgan	5.9	50	Lake	8.4
15	De Kalb	6.0	50	Jasper	8.4
15	Marshall	6.0	52	Greene	8.7
17	Clark	6.1	53	Marion	9.0
18	Tippecanoe	6.3	53	Bartholomew	9.0
18	Howard	6.3	55	Adams	9.3
18	Johnson	6.3	56	Fayette	9.4
21	Wabash	6.5	56	Grant	9.4
21	Hancock	6.5	56	LaPorte	9.4
23	Jennings	6.6	59	Henry	9.6
24	Knox	6.7	60	Fulton	10.4
24	Clay	6.7	60	Cass	10.4
24	Vigo	6.7	62	Jay	11.8
24	Putnam	6.7			
28	Lawrence	6.9			
29	Shelby	7.0		INDIANA	7.3
29	Jefferson	7.0			
29	Gibson	7.0			
32	Kosciusko	7.1			
32	Scott	7.1			
34	Elkhart	7.2			
34	Ripley	7.2			
36	Madison	7.3			

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Infant Mortality Rate, White Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>	<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Floyd	3.4	37	Scott	6.9
2	Hamilton	4.0	37	Putnam	6.9
3	Porter	4.3	40	Jefferson	7.0
4	Howard	5.1	40	Lawrence	7.0
5	St. Joseph	5.2	42	Gibson	7.1
5	Warrick	5.2	42	Noble	7.1
7	De Kalb	5.3	44	Delaware	7.2
7	Knox	5.3	45	Kosciusko	7.3
9	Huntington	5.4	45	Miami	7.3
10	Marshall	5.5	47	Ripley	7.4
10	Boone	5.5	48	Daviess	7.6
10	Elkhart	5.5	49	Starke	7.7
10	Hendricks	5.5	50	LaPorte	7.9
14	Lagrange	5.6	50	Dubois	7.9
14	Steuben	5.6	52	Montgomery	8.1
16	Dearborn	5.7	53	Jasper	8.3
16	Monroe	5.7	53	Cass	8.3
18	Tippecanoe	5.8	55	Bartholomew	8.5
19	Whitley	5.9	56	Greene	8.8
19	Allen	5.9	57	Adams	9.1
19	Johnson	5.9	58	Fayette	9.2
22	Marion	6.0	59	Henry	9.4
22	Morgan	6.0	59	Grant	9.4
24	Clark	6.1	61	Fulton	10.8
24	Harrison	6.1	62	Jay	11.8
26	Hancock	6.2			
26	Lake	6.2		INDIANA	6.1
28	Wabash	6.4			
28	Clinton	6.4			
28	Vigo	6.4			
31	Clay	6.5			
31	Jennings	6.5			
33	Madison	6.7			
33	Wayne	6.7			
35	Vanderburgh	6.8			
35	Shelby	6.8			
37	Jackson	6.9			

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Infant Mortality Rate, Black Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>RATE*</u></b>
1	Vanderburgh	12.8
2	Lake	13.4
3	Marion	13.9
4	LaPorte	14.6
5	Madison	14.8
6	Tippecanoe	15.0
7	Delaware	17.6
8	Elkhart	17.7
9	St. Joseph	17.8
10	Allen	19.5
	INDIANA	14.6

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Infant Mortality Rate, Non-Hispanic Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>	<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Floyd	4.0	35	Madison	7.2
2	Hamilton	4.3	36	Miami	7.2
3	Porter	4.4	37	Noble	7.4
4	Marshall	5.0	37	Elkhart	7.4
5	Boone	5.2	37	Ripley	7.4
6	Huntington	5.4	40	Vanderburgh	7.7
7	Steuben	5.5	41	Starke	7.8
8	Hendricks	5.6	41	Wayne	7.8
8	Whitley	5.6	43	Montgomery	7.9
10	Monroe	5.7	43	Daviess	7.9
11	Wabash	5.8	43	Clinton	7.9
11	Dearborn	5.8	46	Allen	8.0
13	Morgan	5.9	47	Dubois	8.1
13	Lagrange	5.9	48	St. Joseph	8.3
13	Knox	5.9	48	Delaware	8.3
13	Jennings	5.9	50	Lake	8.5
13	Harrison	5.9	50	Jasper	8.5
13	De Kalb	5.9	52	Greene	8.9
19	Warrick	6.0	53	Adams	9.1
19	Jackson	6.0	54	Bartholomew	9.2
19	Johnson	6.0	54	Marion	9.2
22	Tippecanoe	6.1	56	Henry	9.3
22	Howard	6.1	57	Fayette	9.5
24	Shelby	6.4	57	LaPorte	9.5
25	Clark	6.5	59	Cass	9.7
26	Hancock	6.6	60	Grant	9.8
27	Vigo	6.7	61	Fulton	11.0
27	Kosciusko	6.7	62	Jay	11.6
27	Clay	6.7			
30	Lawrence	6.8		INDIANA	7.3
30	Putnam	6.8			
30	Jefferson	6.8			
33	Scott	7.0			
34	Gibson	7.1			

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Infant Mortality Rate, Hispanic Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Elkhart	6.3
2	Allen	6.9
3	Lake	7.2
4	St. Joseph	7.4
5	Tippecanoe	7.5
6	Marion	8.1
	INDIANA	7.7

\*Rate per 1,000 Live Births

Note: Hispanic ethnicity can be of any race. Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.



**Neonatal Mortality Rate, Total Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>	<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Floyd	2.2	33	Dubois	5.4
2	Porter	2.7	34	Gibson	5.6
3	Hamilton	3.3	35	St. Joseph	5.7
4	Clark	3.5	36	Cass	5.9
4	Boone	3.5	37	Bartholomew	6.0
6	Monroe	3.6	38	Marion	6.2
7	Howard	3.7	39	LaPorte	6.3
8	Dearborn	3.8	40	Greene	6.8
9	Vigo	3.9	41	Adams	6.9
9	Hendricks	3.9	42	Henry	7.1
11	Noble	4.0	43	Jay	7.9
12	Tippecanoe	4.1			
12	Lagrange	4.1		INDIANA	4.8
12	Johnson	4.1			
12	Wayne	4.1			
16	Elkhart	4.2			
16	Warrick	4.2			
18	Morgan	4.3			
19	Madison	4.4			
20	Marshall	4.5			
20	Kosciusko	4.5			
20	Knox	4.5			
20	Hancock	4.5			
24	Shelby	4.6			
25	Montgomery	4.7			
25	Clinton	4.7			
27	Delaware	4.8			
28	Grant	5.0			
29	Jackson	5.0			
29	Vanderburgh	5.0			
31	Allen	5.2			
32	Lake	5.3			

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Neonatal Mortality Rate, White Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Porter	2.3
2	Hamilton	2.9
3	Clark	3.3
4	Howard	3.3
5	Elkhart	3.4
6	Wayne	3.4
7	Noble	3.6
8	Warrick	3.6
9	Hendricks	3.7
10	Tippecanoe	3.7
11	Johnson	3.7
12	Boone	3.8
13	St. Joseph	3.8
14	Vigo	3.8
15	Monroe	3.9
16	Lagrange	4.0
17	Jackson	4.0
18	Madison	4.0
19	Marion	4.1
20	Allen	4.1
21	Delaware	4.1
22	Lake	4.2
23	Hancock	4.2
24	Morgan	4.4
25	Marshall	4.4
26	Kosciusko	4.5
27	Shelby	4.6
28	Montgomery	4.7
29	Grant	4.9
30	Vanderburgh	4.9
31	Cass	5.0
32	LaPorte	5.1
33	Gibson	5.5
34	Dubois	5.6
35	Bartholomew	5.7
36	Adams	6.7
37	Greene	6.8
38	Henry	7.1
39	Jay	8.1
	INDIANA	4.0

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Neonatal Mortality Rate, Black Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
5	Lake	8.2
2	Elkhart	9.1
6	Marion	9.4
1	LaPorte	10.6
4	Allen	11.5
3	St. Joseph	11.6
	INDIANA	9.2

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

# **Neonatal Mortality Rate, Non-Hispanic Indiana Residents, 2007 – 2016**

(Counties with 20 or more infant deaths for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>RATE*</u></b>
1	Porter	2.5
2	Hamilton	3.1
3	Boone	3.3
4	Monroe	3.7
4	Clark	3.7
4	Howard	3.7
7	Vigo	3.8
7	Noble	3.8
7	Hendricks	3.8
10	Jackson	3.9
10	Johnson	3.9
12	Wayne	4.0
13	Tippecanoe	4.1
14	Lagrange	4.2
15	Warrick	4.3
15	Morgan	4.3
17	Madison	4.4
17	Elkhart	4.4
19	Kosciusko	4.5
20	Shelby	4.6
20	Hancock	4.6
22	Delaware	4.7
23	Montgomery	4.9
24	Vanderburgh	5.0
25	Grant	5.1
26	Allen	5.2
27	Lake	5.4
28	Cass	5.5
29	St. Joseph	5.6
29	Gibson	5.6
31	Dubois	6.0
31	Bartholomew	6.0
33	Marion	6.2
34	LaPorte	6.4
35	Adams	6.6
36	Greene	6.9
37	Henry	7.0
38	Jay	7.5
	INDIANA	4.7

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Neonatal Mortality Rate, Hispanic Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infant deaths for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>RATE*</u></b>
1	Elkhart	3.5
2	Allen	4.6
3	Lake	4.7
4	Marion	6.0
5	St. Joseph	6.2
	INDIANA	5.3

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Post-neonatal Mortality Rate, Total Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Hamilton	1.1
2	Hendricks	1.8
3	Porter	1.9
4	Monroe	2.0
5	Johnson	2.2
5	Tippecanoe	2.2
7	Howard	2.5
8	St. Joseph	2.6
8	Kosciusko	2.6
8	Vanderburgh	2.6
11	Clark	2.7
11	Allen	2.7
13	Marion	2.8
13	Madison	2.8
15	Vigo	2.9
16	Elkhart	3.0
16	Bartholomew	3.0
16	Lake	3.0
19	LaPorte	3.1
20	Delaware	3.5
20	Noble	3.5
22	Wayne	3.8
23	Daviess	4.0
24	Grant	4.5
24	Cass	4.5
	INDIANA	2.6

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

# **Post-neonatal Mortality Rate, White Indiana Residents, 2007 – 2016**

(Counties with 20 or more infant deaths for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>RATE*</u></b>
1	Hamilton	1.1
2	St. Joseph	1.4
3	Allen	1.8
4	Monroe	1.8
4	Marion	1.8
6	Hendricks	1.9
6	Vanderburgh	1.9
8	Porter	2.0
8	Tippecanoe	2.0
8	Lake	2.0
11	Elkhart	2.1
12	Johnson	2.2
13	Vigo	2.6
14	Madison	2.7
14	Kosciusko	2.7
16	Clark	2.8
16	LaPorte	2.8
16	Bartholomew	2.8
19	Delaware	3.1
20	Wayne	3.3
21	Noble	3.5
22	Daviess	4.2
23	Grant	4.5
	INDIANA	2.1

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Post-neonatal Mortality Rate, Black Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Elkhart	8.7
2	Vanderburgh	7.8
3	St. Joseph	6.3
4	Allen	8.0
5	Lake	5.1
6	Marion	4.6
	INDIANA	5.4

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.



**Post-neonatal Mortality Rate, Non-Hispanic Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Hamilton	1.2
2	Hendricks	1.8
3	Porter	2.0
3	Tippecanoe	2.0
5	Monroe	2.1
5	Johnson	2.1
7	Kosciusko	2.2
8	Howard	2.4
9	Vanderburgh	2.7
9	St. Joseph	2.7
9	Allen	2.7
12	Clark	2.8
13	Madison	2.9
13	Vigo	2.9
13	Marion	2.9
16	Elkhart	3.0
17	Lake	3.1
17	Bartholomew	3.1
19	LaPorte	3.2
20	Delaware	3.6
21	Wayne	3.9
22	Daviess	4.3
23	Grant	4.7
	INDIANA	2.6

\*Rate per 1,000 Live Births

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Post-neonatal Mortality Rate, Hispanic Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infant deaths for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>RATE*</u>
1	Marion	2.1
2	Lake	2.4
	INDIANA	2.4

\*Rate per 1,000 Live Births

Note: Hispanic ethnicity can be of any race. Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Prenatal Care Began in First Trimester, Total Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	83.8	47	Wabash	69.3
2	Boone	82.6	49	Clay	69.0
3	Gibson	81.2	49	Union	69.0
4	Knox	80.8	49	Howard	69.0
5	Warrick	80.1	52	Carroll	68.9
5	Hancock	80.1	53	Tippecanoe	68.4
7	Posey	80.0	54	Grant	68.3
7	Dubois	80.0	55	Wells	68.1
9	Pike	79.0	56	Jennings	68.1
10	Harrison	78.7	57	White	67.8
11	Hendricks	78.4	58	Vigo	67.8
12	Spencer	78.3	59	Steuben	67.5
13	Henry	77.9	59	Brown	67.5
13	Monroe	77.9	59	Starke	67.5
15	Jefferson	77.8	59	Benton	67.5
16	Delaware	77.4	63	Vermillion	67.4
17	Dearborn	76.5	64	Pulaski	67.3
18	Ohio	76.2	65	Montgomery	67.2
19	Randolph	76.0	66	De Kalb	67.1
20	Lawrence	75.6	67	Warren	66.9
21	Martin	75.5	68	Wayne	65.9
22	Putnam	75.4	69	Decatur	65.8
23	Fayette	75.3	69	Newton	65.8
24	Porter	74.4	71	Switzerland	65.6
25	Tipton	74.2	72	St. Joseph	65.4
25	Greene	74.2	73	Bartholomew	65.2
27	Jackson	74.0	74	Lake	64.5
28	Floyd	73.6	75	Washington	64.4
28	Huntington	73.6	76	Noble	64.0
30	Vanderburgh	73.5	77	Cass	63.9
31	Franklin	73.4	77	Clinton	63.9
32	Rush	73.3	79	Scott	63.5
33	Miami	73.2	80	Fulton	63.3
34	Shelby	72.9	81	Marion	63.1
35	Johnson	72.5	82	Daviess	62.3
36	Ripley	72.1	83	Marshall	61.8
37	Blackford	72.0	84	Jay	60.7
38	Madison	71.6	85	Allen	60.4
38	Orange	71.6	86	Fountain	59.2
38	Crawford	71.6	87	LaPorte	59.1
38	Sullivan	71.6	88	Elkhart	58.3
42	Owen	71.2	89	Parke	57.8
43	Jasper	71.0	90	Kosciusko	49.4
44	Perry	70.8	91	Adams	42.2
45	Clark	70.3	92	Lagrange	40.0
46	Whitley	69.8			
47	Morgan	69.3		INDIANA	67.8

\*The values are percentages of live births and do not include the unknowns.

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Prenatal Care Began in First Trimester, White Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	85.0	47	Howard	70.2
2	Boone	82.9	49	Whitley	70.0
3	Gibson	81.7	50	Wabash	69.7
4	Knox	81.2	50	Union	69.7
5	Dubois	81.1	52	Morgan	69.4
6	Warrick	80.7	52	Clay	69.4
7	Hancock	80.6	54	St. Joseph	69.2
8	Posey	80.5	55	Carroll	69.1
9	Hendricks	79.4	56	Wells	68.8
10	Monroe	79.2	57	White	68.7
11	Pike	79.1	58	Vigo	68.6
12	Harrison	78.9	59	Jennings	68.5
13	Spencer	78.6	60	Montgomery	68.3
14	Delaware	78.4	61	Benton	68.2
15	Jefferson	78.3	62	Steuben	68.1
16	Henry	78.0	63	Starke	67.9
17	Dearborn	77.1	63	Lake	67.9
18	Randolph	76.6	65	Marion	67.7
19	Ohio	76.4	65	Wayne	67.7
19	Jackson	76.4	67	Vermillion	67.6
21	Vanderburgh	76.2	68	Brown	67.4
22	Floyd	76.0	68	Pulaski	67.4
23	Putnam	75.9	70	De Kalb	67.2
24	Martin	75.7	71	Warren	66.9
25	Lawrence	75.6	72	Newton	66.2
25	Fayette	75.6	73	Decatur	66.0
27	Porter	75.2	74	Switzerland	65.7
28	Tipton	74.6	75	Bartholomew	65.4
29	Greene	74.4	76	Cass	65.0
30	Huntington	73.9	77	Noble	64.7
31	Franklin	73.7	78	Washington	64.5
31	Miami	73.7	79	Clinton	64.3
33	Rush	73.5	80	Scott	63.9
34	Shelby	73.4	81	Allen	63.5
35	Johnson	73.3	82	Fulton	63.4
36	Madison	73.0	83	Daviess	62.7
37	Ripley	72.4	84	Marshall	62.4
38	Clark	72.1	85	LaPorte	62.1
38	Blackford	72.1	86	Jay	60.7
40	Orange	71.8	87	Elkhart	59.9
41	Sullivan	71.6	88	Fountain	59.5
42	Crawford	71.5	89	Parke	57.7
43	Owen	71.3	90	Kosciusko	50.5
44	Tippecanoe	71.2	91	Adams	42.0
44	Jasper	71.2	92	Lagrange	39.9
46	Perry	71.1			
47	Grant	70.2		INDIANA	70.2

\*The values are percentages of live births and do not include the unknowns.

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### **Prenatal Care Began in First Trimester, Black Population, Indiana Residents, 2007 – 2016**

(Counties with 20 or more mothers who received prenatal care in the first trimester for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>PERCENT</u></b>
1	Henry	78.6
2	Daviess	73.3
3	Randolph	71.4
4	Hancock	70.4
5	Shelby	70.3
5	Hamilton	70.3
7	Delaware	69.2
8	Jefferson	69.0
9	Lawrence	67.7
10	Hendricks	67.6
11	Knox	66.7
12	Porter	66.0
13	Posey	65.3
14	Gibson	64.6
15	Boone	64.4
16	Warrick	62.9
17	Monroe	62.8
18	Cass	61.9
19	Wayne	60.9
19	Madison	60.9
21	Miami	60.7
22	Vanderburgh	60.0
23	Johnson	59.9
24	Clark	59.4
25	Lake	58.5
26	Howard	57.5
27	Vigo	57.0
27	Floyd	57.0
29	Marion	55.7
30	Grant	53.8
31	Bartholomew	51.6
32	St. Joseph	51.5
32	Jackson	51.5
34	Allen	50.3
35	Montgomery	50.0
36	Tippecanoe	47.0
37	Elkhart	45.4
38	LaPorte	45.2
38	Kosciusko	43.2
	INDIANA	55.9

\*The values are percentages of live births and do not include the unknowns.

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Prenatal Care Began in First Trimester, Non-Hispanic Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	84.7	47	Tippecanoe	70.5
2	Boone	82.8	49	White	70.0
3	Dubois	82.7	50	Union	69.8
4	Gibson	81.3	50	Whitley	69.8
5	Knox	80.9	52	Wabash	69.7
6	Warrick	80.5	53	Carroll	69.5
7	Posey	80.3	54	Morgan	69.4
7	Hancock	80.3	54	Montgomery	69.4
7	Spencer	79.3	56	Clay	69.3
10	Pike	79.1	57	Howard	69.2
11	Hendricks	78.9	58	Grant	69.1
11	Jefferson	78.9	59	Benton	68.7
13	Harrison	78.8	60	Wells	68.6
14	Monroe	78.5	60	Steuben	68.6
15	Henry	78.0	62	Jennings	68.4
16	Delaware	77.5	63	Vigo	68.0
17	Dearborn	77.3	64	Starke	67.7
18	Randolph	77.2	65	Pulaski	67.5
19	Jackson	76.7	65	Vermillion	67.5
20	Ohio	76.3	65	Brown	67.5
21	Tipton	75.9	65	Wayne	67.5
22	Putnam	75.7	69	Bartholomew	67.4
23	Martin	75.6	70	Warren	67.3
24	Lawrence	75.6	70	De Kalb	67.3
25	Fayette	75.5	72	Newton	67.0
26	Shelby	75.0	73	St. Joseph	66.6
27	Porter	74.9	74	Decatur	66.2
28	Greene	74.2	75	Switzerland	65.9
28	Floyd	74.2	76	Lake	65.7
30	Vanderburgh	74.1	77	Noble	65.5
31	Huntington	74.0	78	Marion	65.3
32	Franklin	73.9	79	Washington	64.3
33	Miami	73.6	80	Scott	63.8
33	Johnson	73.6	81	Fulton	63.6
35	Rush	73.4	82	Marshall	63.2
36	Ripley	72.9	83	Daviess	62.6
37	Madison	72.8	84	Jay	60.8
38	Blackford	72.3	85	Elkhart	60.5
39	Jasper	72.2	86	Allen	60.3
40	Clark	72.1	87	Fountain	60.1
41	Orange	71.9	88	LaPorte	60.0
42	Crawford	71.7	89	Parke	57.9
42	Sullivan	71.7	90	Kosciusko	50.3
44	Clinton	71.4	91	Adams	41.6
45	Owen	71.2	92	Lagrange	39.4
46	Perry	71.0			
47	Cass	70.5		INDIANA	69.2

\*The values are percentages of live births and do not include the unknowns.

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Prenatal Care Began in First Trimester, Hispanic Population, Indiana Residents, 2007 – 2016

(Counties with 20 or more mothers who received prenatal care in the first trimester for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Harrison	78.1	41	Dearborn	57.6
2	Gibson	77.0	42	Carroll	56.3
3	Boone	76.0	42	Jennings	56.3
4	Henry	75.0	44	Jasper	56.0
5	Lawrence	74.7	44	Vanderburgh	56.0
6	Greene	74.5	46	St. Joseph	55.7
7	Hancock	72.9	46	Noble	55.7
8	Washington	72.6	48	Scott	55.6
9	Whitley	71.2	49	Grant	55.3
10	Knox	70.1	50	White	55.1
11	Porter	69.9	50	Vigo	55.1
12	Delaware	69.2	52	Clark	54.5
13	Owen	69.0	53	Wells	54.3
14	Rush	66.7	54	Tippecanoe	54.2
15	Floyd	65.8	55	Huntington	53.7
16	Hendricks	65.4	56	Jackson	53.2
17	Perry	65.3	57	Marshall	52.6
18	Starke	63.6	58	Wabash	52.2
19	Orange	63.4	59	Johnson	51.5
20	Monroe	62.5	60	Marion	51.4
21	Spencer	62.2	61	Newton	51.3
22	Warrick	62.1	62	Madison	51.1
23	Morgan	61.8	63	Decatur	50.0
24	Adams	61.6	63	Elkhart	50.0
25	Jay	61.5	65	LaPorte	48.9
26	Allen	61.4	66	Benton	48.5
27	Dubois	61.2	67	Steuben	47.9
28	Pulaski	61.0	68	Wayne	46.2
29	De Kalb	60.9	69	Shelby	45.6
30	Howard	60.5	70	Ripley	44.8
31	Putnam	60.3	71	Cass	44.0
32	Miami	60.0	72	Bartholomew	43.6
33	Jefferson	59.7	73	Kosciusko	41.5
34	Lake	59.6	74	Clinton	40.8
35	Hamilton	59.5	75	Montgomery	40.7
35	Blackford	59.5	76	Fountain	37.7
37	Fulton	59.1	77	Tipton	33.9
38	Lagrange	58.9			
38	Daviess	58.9		INDIANA	54.6
40	Randolph	58.2			

\*The values are percentages of live births and do not include the unknowns.

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Low Birthweight\*, Total Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Benton	5.0	48	Dearborn	7.7
2	Lagrange	5.3	48	Rush	7.7
2	Brown	5.3	48	Switzerland	7.7
4	Union	5.6	51	Wells	7.8
5	Warren	6.2	51	Decatur	7.8
6	Newton	6.5	51	Wayne	7.8
6	Marshall	6.5	54	Greene	7.9
8	Fountain	6.6	54	Ohio	7.9
8	Shelby	6.6	54	Morgan	7.9
10	Spencer	6.7	54	Fayette	7.9
10	Parke	6.7	54	Bartholomew	7.9
10	Franklin	6.7	54	Vigo	7.9
13	De Kalb	6.8	54	Henry	7.9
13	Jackson	6.8	61	Wabash	8.1
15	Boone	6.9	61	Tipton	8.1
15	Starke	6.9	61	Fulton	8.1
15	Ripley	6.9	61	Whitley	8.1
15	Hendricks	6.9	61	Cass	8.1
15	Daviess	6.9	61	Knox	8.1
15	Johnson	6.9	61	St. Joseph	8.1
15	Jasper	6.9	68	Warrick	8.2
22	Porter	7.0	68	Orange	8.2
22	Monroe	7.0	68	Floyd	8.2
22	Hamilton	7.0	68	Jennings	8.2
25	Tippecanoe	7.1	72	Blackford	8.3
25	Kosciusko	7.1	72	Clark	8.3
25	Carroll	7.1	72	Jefferson	8.3
28	Washington	7.2	75	Perry	8.4
28	Putnam	7.2	75	Vermillion	8.4
28	Pulaski	7.2	77	Jay	8.5
28	Owen	7.2	77	Madison	8.5
32	Clinton	7.3	77	Lawrence	8.5
32	Steuben	7.3	80	Huntington	8.6
32	Adams	7.3	81	Miami	8.7
32	Noble	7.3	82	Allen	8.8
32	Dubois	7.3	83	Crawford	8.9
32	Clay	7.3	84	Pike	9.2
38	Posey	7.4	84	Scott	9.2
38	Elkhart	7.4	84	Lake	9.2
38	Harrison	7.4	84	Randolph	9.2
41	Hancock	7.5	88	Marion	9.3
41	Montgomery	7.5	88	Vanderburgh	9.3
41	White	7.5	88	LaPorte	9.3
44	Martin	7.6	88	Delaware	9.3
44	Howard	7.6	92	Grant	9.8
44	Sullivan	7.6			
44	Gibson	7.6		INDIANA	8.1

\*Birthweight less than 2,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.



### Low Birthweight\*, White Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Benton	5.0	47	Switzerland	7.5
2	Lagrange	5.2	47	Gibson	7.5
3	Brown	5.3	50	Floyd	7.6
4	Union	5.8	50	Allen	7.6
5	Warren	6.0	52	Dearborn	7.7
6	Newton	6.4	52	Martin	7.7
7	Shelby	6.5	52	Marion	7.7
8	Marshall	6.6	52	Sullivan	7.7
8	Fountain	6.6	52	Decatur	7.7
8	Franklin	6.6	52	Ohio	7.7
8	Parke	6.6	58	Wells	7.8
12	Spencer	6.7	58	Clark	7.8
12	Daviess	6.7	58	Rush	7.8
12	Boone	6.7	58	Vigo	7.8
12	Tippecanoe	6.7	58	Bartholomew	7.8
12	Hamilton	6.7	58	Morgan	7.8
17	Hendricks	6.8	64	Henry	7.9
17	Porter	6.8	64	Fayette	7.9
17	Johnson	6.8	64	Greene	7.9
17	De Kalb	6.8	67	Fulton	8.0
17	Ripley	6.8	67	Cass	8.0
22	Elkhart	6.9	67	Tipton	8.0
22	Jasper	6.9	67	Madison	8.0
22	Starke	6.9	71	Orange	8.1
25	St. Joseph	7.0	71	Whitley	8.1
25	Kosciusko	7.0	71	Knox	8.1
25	Jackson	7.0	71	Wabash	8.1
28	Monroe	7.1	75	Warrick	8.2
28	Putnam	7.1	75	Jennings	8.2
28	White	7.1	75	Jefferson	8.2
28	Washington	7.1	75	Blackford	8.2
32	Owen	7.2	79	Vermillion	8.3
32	Carroll	7.2	79	Perry	8.3
32	Lake	7.2	81	Vanderburgh	8.4
35	Posey	7.3	82	LaPorte	8.5
35	Adams	7.3	82	Lawrence	8.5
35	Pulaski	7.3	82	Jay	8.5
35	Steuben	7.3	85	Huntington	8.6
35	Hancock	7.3	85	Miami	8.6
35	Harrison	7.3	87	Crawford	8.8
41	Noble	7.4	88	Pike	8.9
41	Clinton	7.4	89	Delaware	9.0
41	Clay	7.4	90	Scott	9.2
41	Howard	7.4	91	Grant	9.4
41	Dubois	7.4	91	Randolph	9.4
41	Montgomery	7.4			
47	Wayne	7.5			
				INDIANA	7.4

\*Birthweight less than 2,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Low Birthweight\*, Black Population, Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infants with low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hendricks	8.9
2	Johnson	9.3
3	Howard	9.9
4	Porter	10.3
5	Monroe	10.4
6	Vigo	10.7
7	Hamilton	11.4
8	Hancock	11.7
9	Clark	12.7
9	Delaware	12.7
9	St. Joseph	12.7
12	Tippecanoe	12.9
13	Wayne	13.0
13	Marion	13.0
15	Lake	13.6
16	Elkhart	13.9
17	Floyd	14.1
17	Grant	14.1
19	Madison	14.2
20	Allen	14.5
21	LaPorte	14.6
22	Bartholomew	15.0
23	Vanderburgh	15.9
	INDIANA	13.2

\*Birthweight less than 2,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Low Birthweight\*, Non-Hispanic Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Benton	5.1	45	Sullivan	7.7
2	Lagrange	5.2	49	Wells	7.8
3	Brown	5.4	49	Rush	7.8
4	Union	5.7	51	Decatur	7.9
5	Warren	6.3	51	Henry	7.9
6	Newton	6.4	51	Ohio	7.9
7	Marshall	6.6	51	Clinton	7.9
7	Franklin	6.6	51	Morgan	7.9
9	Parke	6.7	51	Fayette	7.9
10	Jasper	6.8	51	Wayne	7.9
10	Fountain	6.8	51	Greene	7.9
10	Ripley	6.8	59	Vigo	8.0
10	Daviess	6.8	59	Whitley	8.0
10	De Kalb	6.8	59	Bartholomew	8.0
10	Spencer	6.8	59	Jennings	8.0
10	Boone	6.8	63	Floyd	8.1
17	Kosciusko	6.9	63	Jefferson	8.1
17	Hendricks	6.9	63	Wabash	8.1
17	Johnson	6.9	63	Tipton	8.1
17	Shelby	6.9	63	Warrick	8.1
21	Starke	7.0	68	Clark	8.2
21	Washington	7.0	68	Orange	8.2
21	Monroe	7.0	68	Fulton	8.2
21	Jackson	7.0	68	Knox	8.2
21	Hamilton	7.0	72	St. Joseph	8.3
26	Porter	7.1	72	Blackford	8.3
26	Tippecanoe	7.1	74	Lawrence	8.5
26	Harrison	7.1	74	Vermillion	8.5
29	Carroll	7.2	76	Perry	8.6
29	Pulaski	7.2	76	Jay	8.6
29	Putnam	7.2	76	Cass	8.6
32	Owen	7.3	76	Huntington	8.6
32	Adams	7.3	76	Miami	8.6
34	Steuben	7.4	81	Crawford	8.7
34	Posey	7.4	81	Madison	8.7
34	White	7.4	81	Scott	8.7
34	Clay	7.4	84	Allen	9.0
38	Dubois	7.5	85	Pike	9.2
38	Hancock	7.5	86	Delaware	9.3
40	Switzerland	7.6	87	Vanderburgh	9.4
40	Montgomery	7.6	87	Randolph	9.4
40	Elkhart	7.6	89	LaPorte	9.5
40	Dearborn	7.6	90	Lake	9.6
40	Noble	7.6	91	Marion	9.7
45	Gibson	7.7	92	Grant	9.9
45	Martin	7.7			
45	Howard	7.7		INDIANA	8.3

\*Birthweight less than 2,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Low Birthweight\*, Hispanic Population, Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infants with low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Madison	5.2
2	Jackson	5.4
2	Clinton	5.4
4	Noble	5.6
5	Porter	5.7
6	Dubois	6.1
7	Montgomery	6.2
8	Marshall	6.3
9	Tippecanoe	6.4
10	LaPorte	6.5
10	Elkhart	6.5
12	Cass	6.6
12	St. Joseph	6.6
12	Wayne	6.6
15	Bartholomew	6.7
15	Marion	6.7
17	Allen	7.4
17	Lake	7.4
19	Hamilton	7.5
19	Hendricks	7.5
21	Vanderburgh	7.6
22	Johnson	8.1
22	Daviess	8.1
22	White	8.1
25	Monroe	8.2
26	Jasper	8.7
27	Grant	8.8
28	Clark	9.1
29	Kosciusko	9.4
30	Delaware	10.1
31	Floyd	10.4
32	Jefferson	11.9
33	Harrison	13.5
34	Scott	24.7
	INDIANA	6.9

\*Birthweight less than 2,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Very Low Birthweight\*, Total Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infants with very low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Decatur	0.7	35	Harrison	1.3
1	Lagrange	0.7	35	Elkhart	1.3
3	White	0.8	35	Randolph	1.3
4	Starke	0.9	35	Wayne	1.3
4	Wabash	0.9	35	Cass	1.3
4	Putnam	0.9	35	Miami	1.3
7	Porter	1.0	35	Clay	1.3
7	Knox	1.0	35	Morgan	1.3
7	Daviess	1.0	47	Vigo	1.4
7	Jennings	1.0	47	Hancock	1.4
7	Shelby	1.0	47	Ripley	1.4
7	Spencer	1.0	47	Warrick	1.4
7	Kosciusko	1.0	47	Jefferson	1.4
7	Jackson	1.0	47	Delaware	1.4
7	Steuben	1.0	47	Clark	1.4
16	Jay	1.1	47	Henry	1.4
16	Sullivan	1.1	47	Bartholomew	1.4
16	Marshall	1.1	47	Floyd	1.4
16	Wells	1.1	47	Dearborn	1.4
16	Boone	1.1	47	Rush	1.4
16	Howard	1.1	59	Scott	1.5
16	De Kalb	1.1	59	Allen	1.5
16	Johnson	1.1	59	Grant	1.5
24	Tippecanoe	1.2	59	Huntington	1.5
24	Whitley	1.2	59	Madison	1.5
24	Fountain	1.2	59	Clinton	1.5
24	Jasper	1.2	65	St. Joseph	1.6
24	Orange	1.2	66	Pike	1.7
24	Hendricks	1.2	66	Dubois	1.7
24	Adams	1.2	66	Gibson	1.7
24	Hamilton	1.2	66	Switzerland	1.7
24	Posey	1.2	70	LaPorte	1.8
24	Montgomery	1.2	70	Fulton	1.8
24	Monroe	1.2	70	Vanderburgh	1.8
35	Greene	1.3	70	Fayette	1.8
35	Lawrence	1.3	74	Marion	1.9
35	Noble	1.3	74	Lake	1.9
35	Washington	1.3			
				INDIANA	1.4

\*Birthweight less than 1,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Very Low Birthweight\*, White Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infants with very low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Lagrange	0.8	39	Hancock	1.3
1	Decatur	0.8	39	Randolph	1.3
3	Starke	0.9	39	Lawrence	1.3
3	Porter	0.9	39	Vigo	1.3
3	Wabash	0.9	39	Greene	1.3
3	Knox	0.9	39	Harrison	1.3
3	Putnam	0.9	39	St. Joseph	1.3
8	Kosciusko	1.0	39	Lake	1.3
8	Daviess	1.0	39	Warrick	1.3
8	Tippecanoe	1.0	39	Noble	1.3
8	Jennings	1.0	39	Clay	1.3
8	Jackson	1.0	39	Miami	1.3
8	Jay	1.0	39	Grant	1.3
8	Shelby	1.0	39	Ripley	1.3
8	Spencer	1.0	39	Morgan	1.3
8	Steuben	1.0	39	Floyd	1.3
17	Marshall	1.1	39	Madison	1.3
17	Howard	1.1	56	Cass	1.4
17	Sullivan	1.1	56	Delaware	1.4
17	Wells	1.1	56	Jefferson	1.4
17	Boone	1.1	56	Marion	1.4
17	Jasper	1.1	56	Dearborn	1.4
17	Clark	1.1	56	Bartholomew	1.4
17	Johnson	1.1	56	Henry	1.4
17	De Kalb	1.1	56	Scott	1.4
17	Whitley	1.1	64	LaPorte	1.5
17	Fountain	1.1	64	Huntington	1.5
28	Hamilton	1.2	64	Rush	1.5
28	Allen	1.2	64	Clinton	1.5
28	Adams	1.2	68	Pike	1.6
28	Orange	1.2	68	Switzerland	1.6
28	Posey	1.2	70	Fulton	1.7
28	Elkhart	1.2	70	Gibson	1.7
28	Hendricks	1.2	70	Vanderburgh	1.7
28	Wayne	1.2	70	Dubois	1.7
28	Montgomery	1.2	74	Fayette	1.8
28	Monroe	1.2			
28	Washington	1.2		INDIANA	1.2

\*Birthweight less than 1,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Very Low Birthweight\*, Black Population, Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infants with very low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Delaware	1.7
2	Grant	2.7
2	Elkhart	2.7
4	St. Joseph	2.8
4	Tippecanoe	2.8
6	Vigo	2.9
6	Marion	2.9
8	Vanderburgh	3.1
8	Lake	3.1
10	Allen	3.2
10	Hamilton	3.2
12	Madison	3.5
13	LaPorte	3.7
14	Clark	3.9
	INDIANA	2.9

\*Birthweight less than 1,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

**Very Low Birthweight\*, Non-Hispanic Population, Indiana Residents, 2007 – 2016**  
(Counties with 20 or more infants with very low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Lagrange	0.8	35	Ripley	1.3
1	Decatur	0.8	35	Randolph	1.3
3	Starke	0.9	35	Wayne	1.3
3	Wabash	0.9	35	Floyd	1.3
3	Kosciusko	0.9	35	Clark	1.3
6	Putnam	1.0	35	Delaware	1.3
6	Porter	1.0	35	Morgan	1.3
6	Jennings	1.0	35	Elkhart	1.3
6	Steuben	1.0	35	Noble	1.3
6	Daviess	1.0	35	Clay	1.3
6	Knox	1.0	49	Warrick	1.4
6	Jackson	1.0	49	Scott	1.4
6	Marshall	1.0	49	Miami	1.4
6	Spencer	1.0	49	Vigo	1.4
15	Jay	1.1	49	Hancock	1.4
15	Boone	1.1	49	Bartholomew	1.4
15	Sullivan	1.1	49	Dearborn	1.4
15	Johnson	1.1	49	Henry	1.4
15	Shelby	1.1	57	Rush	1.5
15	Wells	1.1	57	Grant	1.5
15	Jasper	1.1	57	Cass	1.5
15	De Kalb	1.1	57	Allen	1.5
15	Howard	1.1	57	Huntington	1.5
15	Whitley	1.1	62	Clinton	1.6
25	Tippecanoe	1.2	62	St. Joseph	1.6
25	Hendricks	1.2	62	Madison	1.6
25	Jefferson	1.2	65	Switzerland	1.7
25	Montgomery	1.2	65	Gibson	1.7
25	Fountain	1.2	65	Pike	1.7
25	Orange	1.2	68	Dubois	1.8
25	Hamilton	1.2	68	LaPorte	1.8
25	Harrison	1.2	68	Fulton	1.8
25	Monroe	1.2	68	Vanderburgh	1.8
25	Adams	1.2	72	Fayette	1.9
35	Washington	1.3	72	Marion	1.9
35	Posey	1.3	74	Lake	2.0
35	Lawrence	1.3			
35	Greene	1.3		INDIANA	1.4

\*Birthweight less than 1,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.



**Very Low Birthweight\*, Hispanic Population, Indiana Residents, 2007 – 2016**  
 (Counties with 20 or more infants with very low birthweight for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Tippecanoe	1.0
2	Elkhart	1.1
3	Lake	1.3
4	Allen	1.4
5	Marion	1.5
5	St. Joseph	1.5
7	Clark	1.8
8	Kosciusko	1.9
	INDIANA	1.4

\*Birthweight less than 1,500 grams

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Breastfed at Hospital Discharge, Total Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Scott	51.5	48	Spencer	70.5
2	Perry	56.8	49	Delaware	70.6
3	Knox	58.3	50	Greene	70.9
4	Fayette	59.0	50	White	70.9
5	Switzerland	60.2	52	Huntington	71.7
6	Ohio	60.3	53	Washington	71.8
7	Fountain	63.2	54	Benton	71.9
8	Dearborn	63.3	55	Gibson	72.0
9	Ripley	63.5	56	Steuben	72.2
10	Lake	63.6	57	Marion	72.6
11	Miami	63.9	58	Vanderburgh	73.5
12	Grant	64.1	59	Parke	73.8
13	Howard	64.5	60	Harrison	74.1
14	Crawford	65.5	61	Clark	74.3
15	Sullivan	65.7	62	Tipton	74.4
15	Vermillion	65.7	63	Posey	74.5
17	Union	65.8	64	Jay	75.2
18	Decatur	66.3	65	Floyd	75.4
19	Rush	66.7	66	De Kalb	75.6
20	Franklin	66.8	67	Carroll	75.7
21	Fulton	67.1	68	Noble	76.1
22	Wabash	67.3	69	Daviess	76.2
22	Shelby	67.3	70	Jasper	76.4
24	Pike	67.5	71	Owen	76.8
24	Cass	67.5	72	Johnson	77.4
26	Madison	67.6	73	Allen	77.6
27	Jefferson	67.7	74	Dubois	77.8
28	Vigo	67.8	75	Bartholomew	78.5
29	Jennings	68.4	76	Tippecanoe	78.7
29	Montgomery	68.4	77	Marshall	78.8
31	Martin	68.5	77	Warrick	78.8
32	Randolph	68.7	79	Kosciusko	78.9
33	Wayne	68.8	80	Porter	79.9
33	Clay	68.8	81	Brown	80.6
35	Pulaski	69.2	82	Wells	80.9
36	Starke	69.3	83	Hendricks	81.0
37	Henry	69.6	84	Hancock	81.5
38	Jackson	69.8	85	Whitley	82.0
38	Morgan	69.8	86	St. Joseph	82.7
40	Warren	70.0	87	Boone	83.1
40	Blackford	70.0	88	Elkhart	83.9
40	Clinton	70.0	89	Adams	87.2
43	Lawrence	70.1	90	Monroe	87.3
43	LaPorte	70.1	91	Lagrange	87.9
43	Putnam	70.1	92	Hamilton	91.0
46	Orange	70.3			
47	Newton	70.4		INDIANA	74.4

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Breastfed at Hospital Discharge, White Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Scott	51.4	48	Greene	70.7
2	Perry	56.6	49	Huntington	71.6
3	Knox	58.3	50	Washington	71.7
4	Fayette	58.9	51	Benton	71.9
5	Switzerland	60.2	52	Lake	72.0
6	Ohio	60.3	53	Steuben	72.1
7	Fountain	63.0	54	Delaware	72.2
8	Ripley	63.4	55	Gibson	72.3
9	Dearborn	63.7	56	LaPorte	73.4
10	Miami	64.1	57	Parke	73.9
11	Crawford	65.4	58	Harrison	74.1
12	Vermillion	65.6	59	Tipton	74.5
13	Sullivan	65.7	60	Clark	74.8
14	Union	66.1	61	Vanderburgh	74.9
14	Howard	66.1	61	Posey	74.9
14	Grant	66.1	63	Jay	75.2
17	Decatur	66.3	64	Carroll	75.4
18	Fulton	66.6	65	Noble	75.5
18	Rush	66.6	66	De Kalb	75.6
20	Wabash	66.8	67	Bartholomew	76.2
21	Shelby	66.9	68	Marion	76.5
22	Franklin	67.0	69	Jasper	76.5
23	Pike	67.5	70	Daviess	76.7
24	Jefferson	67.6	70	Owen	76.7
25	Cass	67.9	72	Johnson	76.9
25	Vigo	67.9	73	Floyd	77.0
27	Jennings	68.1	74	Dubois	77.1
28	Montgomery	68.2	75	Kosciusko	78.4
29	Martin	68.4	76	Marshall	78.5
29	Randolph	68.4	77	Warrick	78.7
31	Clay	68.8	78	Tippecanoe	79.2
32	Pulaski	68.9	79	Porter	80.0
33	Jackson	69.1	80	Brown	80.5
34	Starke	69.3	81	Hendricks	80.8
34	Wayne	69.3	82	Wells	81.1
36	Madison	69.5	83	Hancock	81.3
36	Henry	69.5	84	Whitley	82.0
38	Clinton	69.7	85	Allen	82.5
38	Putnam	69.7	86	Boone	82.6
40	Morgan	69.8	87	Elkhart	85.2
40	Warren	69.8	88	St. Joseph	85.7
42	Blackford	69.9	89	Monroe	87.1
42	Lawrence	69.9	90	Adams	87.3
44	Newton	70.2	91	Lagrange	88.1
45	White	70.4	92	Hamilton	90.9
45	Orange	70.4			
47	Spencer	70.6		INDIANA	76.2

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Breastfed at Hospital Discharge, Black Population, Indiana Residents, 2007 – 2016

(Counties with 20 or more mothers that breastfed at hospital discharge for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Grant	42.7
2	Madison	46.3
3	Jefferson	46.6
3	Lake	46.6
5	Howard	46.9
6	Posey	49.0
7	LaPorte	49.2
8	Knox	49.3
9	Miami	52.4
10	Delaware	53.5
11	Tippecanoe	55.2
12	Allen	56.0
13	Floyd	56.8
14	Wayne	58.8
15	Vanderburgh	59.7
16	Vigo	60.6
17	Gibson	61.5
18	Daviess	61.7
19	Marion	62.1
20	Montgomery	63.0
21	Clark	63.2
22	Elkhart	64.3
23	Clay	64.5
24	Morgan	65.6
25	Henry	66.1
26	Jackson	68.2
27	Cass	68.3
28	St. Joseph	68.5
29	Warrick	70.1
30	Marshall	70.3
31	Bartholomew	71.5
32	Porter	72.3
33	Noble	74.2
33	Putnam	74.2
35	Randolph	75.0
36	Monroe	76.5
37	Kosciusko	77.0
38	Wabash	78.6
39	Johnson	79.1
40	Shelby	81.1
41	Hendricks	82.0
42	Hancock	82.7
43	Lawrence	83.9
44	Hamilton	86.6
45	Boone	88.1
	INDIANA	58.9

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Breastfed at Hospital Discharge, Non-Hispanic Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Scott	51.2	47	Putnam	70.0
2	Perry	56.9	49	Orange	70.2
3	Knox	58.0	50	Delaware	70.5
4	Fayette	58.9	51	Marion	70.7
5	Switzerland	60.2	51	Greene	70.7
5	Ohio	60.2	53	Benton	71.3
7	Ripley	62.9	54	Huntington	71.6
7	Fountain	62.9	54	Washington	71.6
9	Lake	63.1	56	Gibson	71.8
10	Dearborn	63.5	57	Steuben	72.0
11	Miami	63.8	58	Vanderburgh	73.1
11	Grant	63.8	59	Clark	73.3
13	Howard	64.3	60	Parke	73.8
14	Cass	65.5	61	Harrison	74.0
15	Crawford	65.6	62	Noble	74.4
16	Vermillion	65.8	63	Posey	74.5
16	Sullivan	65.8	64	Tipton	74.9
18	Union	66.2	65	Floyd	75.1
18	Decatur	66.2	66	Carroll	75.2
20	Fulton	66.4	67	Jay	75.4
20	Shelby	66.4	68	De Kalb	75.7
20	Rush	66.4	69	Jasper	76.0
23	Clinton	66.5	70	Dubois	76.2
24	Jefferson	66.6	71	Owen	76.6
25	Madison	66.8	71	Daviess	76.6
26	Wabash	66.9	73	Johnson	77.3
27	Franklin	67.0	73	Allen	77.3
28	Pike	67.5	75	Bartholomew	77.6
29	Vigo	67.7	75	Tippecanoe	77.6
30	Montgomery	68.1	77	Marshall	77.9
31	Jennings	68.2	78	Kosciusko	78.5
31	Randolph	68.2	79	Warrick	78.6
31	White	68.2	80	Porter	80.0
34	Martin	68.4	81	Brown	80.4
35	Clay	68.7	82	Hendricks	81.0
35	Wayne	68.7	83	Wells	81.1
37	Jackson	68.8	84	Hancock	81.4
38	LaPorte	69.0	85	Elkhart	81.6
39	Pulaski	69.1	86	St. Joseph	81.9
40	Starke	69.2	87	Whitley	82.0
41	Blackford	69.4	88	Boone	83.1
42	Henry	69.5	89	Monroe	87.1
43	Morgan	69.7	90	Adams	87.2
44	Lawrence	69.8	91	Lagrange	88.6
45	Warren	69.9	92	Hamilton	91.0
46	Spencer	69.9			
47	Newton	70.0		INDIANA	73.8

Note: Some rankings in the 2006-2015 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

### Breastfed at Hospital Discharge, Hispanic Population, Indiana Residents, 2007 – 2016

(Counties with 20 or more mothers that breastfed at hospital discharge for the 10 combined years)

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Perry	53.1	42	Allen	81.2
2	Tipton	62.9	42	Jasper	81.2
3	Scott	63.0	44	Madison	81.5
4	Lake	65.6	45	Lawrence	81.8
5	Lagrange	65.8	46	Wabash	82.2
6	Posey	67.6	47	Washington	82.3
7	Grant	68.7	48	Greene	82.4
8	Miami	68.9	49	Kosciusko	82.7
9	Fountain	70.1	50	Putnam	82.8
10	Decatur	70.3	50	LaPorte	82.8
11	Daviess	70.7	52	Clark	83.2
11	Pulaski	70.7	53	Vanderburgh	83.3
13	Howard	71.9	54	Gibson	83.6
13	De Kalb	71.9	55	Hendricks	83.7
15	Montgomery	72.5	56	Clay	83.9
16	Jay	72.6	56	Marion	83.9
17	Starke	72.7	58	Marshall	84.4
18	Delaware	73.3	59	Whitley	84.6
19	Henry	73.5	60	Ripley	85.1
20	Cass	73.6	61	Adams	85.3
21	Steuben	73.9	61	Hancock	85.3
22	Newton	75.2	61	Noble	85.3
23	Harrison	75.3	64	Carroll	85.4
23	Knox	75.3	65	Boone	85.5
25	Orange	75.6	66	Jefferson	85.6
26	Randolph	76.7	67	White	86.2
26	Wells	76.7	68	Tippecanoe	86.7
28	Huntington	76.8	68	Rush	86.7
29	Jennings	77.1	70	Bartholomew	87.0
30	Dearborn	77.3	71	Wayne	88.2
31	Jackson	77.6	72	Dubois	89.0
32	Floyd	78.9	72	St. Joseph	89.0
33	Fulton	79.2	74	Blackford	89.2
33	Porter	79.2	75	Warrick	90.3
35	Shelby	79.5	76	Owen	90.5
36	Vigo	79.8	77	Monroe	91.6
37	Morgan	80.0	78	Elkhart	92.4
38	Benton	80.3	79	Hamilton	93.0
38	Spencer	80.3			
40	Johnson	80.7			
41	Clinton	80.9		INDIANA	81.1

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Mothers Smoked During Pregnancy, Total Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	3.5	50	Clay	22.8
2	Lagrange	8.4	50	Sullivan	22.8
3	Adams	8.6	50	Putnam	22.8
4	Hendricks	9.5	53	Huntington	23.0
5	Lake	11.6	54	Delaware	23.1
6	Boone	12.1	54	Dearborn	23.1
7	Allen	12.2	56	Howard	23.5
8	Elkhart	12.8	57	De Kalb	23.9
9	St. Joseph	12.9	58	Union	24.0
9	Dubois	12.9	59	Decatur	24.4
11	Hancock	13.1	60	Ohio	24.5
12	Porter	13.2	60	Shelby	24.5
13	Marion	13.6	62	Rush	24.7
14	Daviess	13.7	63	Ripley	24.8
15	Floyd	13.8	64	Fountain	24.9
16	Tippecanoe	14.2	65	Pike	25.1
17	Warrick	14.4	66	Randolph	25.4
18	Clark	15.7	66	Miami	25.4
19	Tipton	16.1	68	Vermillion	25.5
20	Monroe	16.4	68	Newton	25.5
21	Bartholomew	16.5	70	Greene	25.7
22	Kosciusko	16.9	71	Steuben	25.9
23	Johnson	17.1	72	LaPorte	26.2
24	Wells	17.8	73	Wabash	26.8
25	Whitley	18.5	73	Henry	26.8
26	Spencer	18.8	73	Morgan	26.8
27	Marshall	19.1	76	Montgomery	26.9
28	Parke	19.2	77	Fulton	27.0
29	Harrison	19.4	77	Jennings	27.0
30	Clinton	19.6	79	Jefferson	27.5
31	Franklin	19.8	80	Perry	27.6
31	Posey	19.8	81	Pulaski	28.3
33	Vanderburgh	20.3	82	Switzerland	28.6
34	Benton	20.7	82	Knox	28.6
35	Vigo	20.8	82	Starke	28.6
36	Carroll	21.0	85	Lawrence	28.9
36	Wayne	21.0	86	Orange	29.1
36	Washington	21.0	87	Grant	29.8
39	Cass	21.1	87	Fayette	29.8
40	Brown	21.2	89	Blackford	30.6
41	Noble	21.3	90	Crawford	31.5
42	Jasper	21.5	90	Owen	31.5
43	Jay	21.6	92	Scott	32.6
43	Jackson	21.6			
45	Martin	21.9			
46	Warren	22.0		INDIANA	16.4
47	Gibson	22.3			
48	Madison	22.6			
48	White	22.6			

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Mothers Smoked During Pregnancy, White Population, Indiana Residents, 2007 – 2017

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	3.7	48	Putnam	23.0
2	Lagrange	8.4	51	Dearborn	23.2
2	Adams	8.4	51	Madison	23.2
4	Hendricks	10.1	53	Jackson	23.4
5	Lake	12.6	54	White	23.5
5	Boone	12.6	55	Union	23.7
7	Allen	12.7	56	Delaware	23.9
8	Elkhart	13.0	57	De Kalb	24.0
9	Hancock	13.5	58	Howard	24.4
10	Dubois	13.7	59	Ohio	24.5
11	St. Joseph	13.8	60	Decatur	24.6
12	Porter	13.9	61	Rush	24.8
13	Floyd	14.1	62	Ripley	25.1
14	Daviess	14.2	63	Shelby	25.2
15	Warrick	14.9	64	Pike	25.3
16	Marion	16.2	65	Miami	25.4
16	Tipton	16.2	66	Fountain	25.5
18	Tippecanoe	16.3	66	Vermillion	25.5
19	Clark	16.8	68	Randolph	25.8
20	Monroe	17.8	68	Greene	25.8
20	Wells	17.8	70	Newton	26.0
20	Johnson	17.8	71	Steuben	26.4
23	Kosciusko	18.3	72	Henry	27.0
24	Whitley	18.5	72	Morgan	27.0
25	Spencer	18.9	74	Wabash	27.2
26	Bartholomew	19.0	75	Jennings	27.6
27	Parke	19.2	75	Fulton	27.6
28	Posey	19.3	75	LaPorte	27.6
29	Harrison	19.7	78	Perry	27.7
30	Franklin	19.8	79	Montgomery	27.9
30	Marshall	19.8	80	Jefferson	28.0
32	Clinton	20.1	81	Pulaski	28.4
33	Washington	21.1	82	Starke	28.8
33	Benton	21.1	82	Switzerland	28.8
33	Vanderburgh	21.1	84	Knox	28.9
36	Carroll	21.2	84	Orange	28.9
37	Vigo	21.4	86	Lawrence	29.0
38	Brown	21.5	87	Fayette	29.9
39	Jay	21.8	88	Grant	30.6
39	Cass	21.8	88	Blackford	30.6
39	Jasper	21.8	90	Crawford	31.3
42	Martin	21.9	91	Owen	32.0
43	Wayne	22.2	92	Scott	32.9
43	Warren	22.2			
45	Gibson	22.3			
46	Noble	22.8		INDIANA	17.8
47	Clay	22.9			
48	Sullivan	23.0			
48	Huntington	23.0			

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.



**Mothers Smoked During Pregnancy, Black Population, Indiana Residents, 2007 – 2016**

(Counties with 20 or more mothers that smoked during pregnancy for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>PERCENT</u></b>
1	Hamilton	2.8
2	Hendricks	4.4
3	Porter	6.3
4	Marion	11.0
5	Lake	11.4
6	Johnson	11.5
7	St. Joseph	11.9
7	Clark	11.9
9	Tippecanoe	13.1
10	Allen	14.3
11	Floyd	15.0
12	Monroe	15.4
13	Elkhart	16.6
14	Madison	18.4
15	Howard	18.7
16	Delaware	19.1
17	Vanderburgh	19.5
18	Wayne	19.7
19	Vigo	20.6
20	LaPorte	22.1
21	Bartholomew	22.4
22	Gibson	22.9
23	Grant	26.9
24	Knox	28.0
25	Miami	29.8
26	Jackson	31.8
27	Henry	37.5
28	Posey	55.1
	INDIANA	12.7

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## Mothers Smoked During Pregnancy, Non-Hispanic Population, Indiana Residents, 2007 – 2016

<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>	<u>RANK</u>	<u>COUNTY</u>	<u>PERCENT</u>
1	Hamilton	3.5	50	Madison	23.6
2	Adams	8.4	51	Howard	23.7
3	Lagrange	8.5	52	Union	23.9
4	Hendricks	9.7	53	Jackson	24.0
5	Boone	12.2	54	De Kalb	24.1
6	Lake	13.0	55	Decatur	24.6
6	Allen	13.0	55	Ohio	24.6
8	Hancock	13.1	57	Noble	24.9
9	Porter	13.7	58	Rush	25.0
10	St. Joseph	14.0	59	Ripley	25.2
11	Floyd	14.2	60	Pike	25.3
12	Daviess	14.5	61	Fountain	25.4
13	Warrick	14.6	61	Clinton	25.4
14	Dubois	14.8	61	Vermillion	25.4
15	Marion	15.7	64	Miami	25.6
15	Elkhart	15.7	65	Greene	25.9
15	Tippecanoe	15.7	66	Shelby	26.1
18	Tipton	16.8	66	White	26.1
18	Monroe	16.8	68	Randolph	26.5
20	Clark	16.9	68	Steuben	26.5
21	Johnson	17.7	70	Henry	26.9
22	Wells	18.0	71	Morgan	27.0
23	Bartholomew	18.1	72	Cass	27.2
24	Whitley	18.5	73	Newton	27.3
24	Kosciusko	18.5	73	Wabash	27.3
26	Parke	19.1	75	Jennings	27.7
27	Spencer	19.6	76	Perry	27.8
27	Harrison	19.6	76	Fulton	27.8
29	Posey	19.7	78	LaPorte	27.9
30	Franklin	19.8	79	Jefferson	28.6
31	Vanderburgh	20.7	80	Switzerland	28.7
32	Vigo	21.0	80	Montgomery	28.7
32	Washington	21.0	80	Pulaski	28.7
34	Marshall	21.4	83	Knox	28.8
35	Brown	21.5	84	Starke	29.0
36	Benton	21.8	85	Lawrence	29.1
37	Carroll	21.9	86	Orange	29.4
38	Wayne	22.0	87	Fayette	29.9
39	Jay	22.1	88	Grant	30.8
39	Warren	22.1	89	Blackford	31.0
39	Martin	22.1	90	Crawford	31.5
42	Gibson	22.4	91	Owen	31.9
43	Jasper	22.8	92	Scott	33.1
44	Sullivan	22.9			
44	Clay	22.9			
44	Putnam	22.9		INDIANA	17.7
47	Huntington	23.0			
48	Dearborn	23.3			
49	Delaware	23.4			

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

# **Mothers Smoked During Pregnancy, Hispanic Population, Indiana Residents, 2007 – 2016**

(Counties with 20 or more mothers that smoked during pregnancy for the 10 combined years)

<b><u>RANK</u></b>	<b><u>COUNTY</u></b>	<b><u>PERCENT</u></b>
1	Hamilton	1.5
2	Elkhart	2.0
2	Noble	2.0
2	Marion	2.0
5	Cass	2.7
6	Kosciusko	2.8
7	Jackson	3.0
8	Madison	3.5
9	Tippecanoe	3.6
10	Marshall	3.8
11	Allen	4.1
12	Johnson	4.3
13	St. Joseph	4.4
14	Hendricks	4.8
15	Clark	5.4
16	Lake	5.7
17	Monroe	7.0
18	Porter	7.6
19	LaPorte	7.7
20	Vanderburgh	8.3
21	Floyd	8.4
22	Delaware	8.5
23	Vigo	12.1
24	Adams	13.2
25	Steuben	13.3
26	Grant	13.6
27	Harrison	14.6
28	Howard	15.2
29	De Kalb	16.4
30	Lawrence	21.2
31	Huntington	22.1
	INDIANA	4.1

Note: Some rankings in the 2007-2016 report are not comparable to previous reports. All county rankings are listed in order of best performing counties to worst performing counties.

## **Glossary of Terms**

**Age-Specific Birth Rate** – The number of live births for a specific age group for every 1,000 women in that age group.

**Birthweight** – The amount a liveborn infant weighs at birth.

**County of Occurrence** – The Indiana County where someone gave birth or died. The person may or may not be an Indiana resident.

**County of Residence** – For birth data, the county of residence is the mother’s Indiana County of residence at the time she gave birth, regardless of where she gave birth. For death data, the county of residence is where the person lived when he or she died, regardless of where the death occurred.

**Ethnicity** – Births are based on the reported ethnicity of the mother. Infant deaths are based on the reported ethnicity of the infant. In Indiana, “Hispanic” is classified as an individual’s ethnicity, not his or her race; all Hispanics are classified as either “White Hispanic”, “Black Hispanic”, or “Other Hispanic”. Please see Preface for OMB standards regarding ethnicity.

**First Trimester** – The first three months of pregnancy.

**Infant Mortality** – The death of an infant less than one year old. The infant mortality rate (IMR) is calculated by taking infant deaths divided by live births multiplied by 1,000.

**Kotelchuck Index** – The Kotelchuck Index is an Adequacy of Prenatal Care Utilization (APNCU) Index which attempts to characterize prenatal care (PNC) utilization on two independent and distinctive dimensions – namely adequacy of initiation of PNC and adequacy of received services (once PNC has begun). It utilizes month of initial PNC visit, number of visits, and gestational age in its calculations.

**Live Birth** – A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother’s uterus, regardless of the duration of gestation.

**Low Birthweight (LBW)** – Birthweight less than 2,500 grams (5 lb. 8 oz.)

**Neonatal Mortality** – The death of an infant less than 28 days old. The rate is calculated by taking the number of neonatal deaths divided by live births multiplied by 1,000.

**Occurrent Live Birth** – The live birth of an infant occurring in Indiana regardless of the mother’s state of residence. The mother may or may not be an Indiana resident.

**Preterm Births** – Delivery of a liveborn infant prior to 37 weeks gestation. See Preface for more detailed information about how preterm births were calculated in this report.

**Post-neonatal Mortality** – The death of an infant 28 days to 364 days old. The rate is calculated by taking the number of Post-neonatal deaths divided by live births multiplied by 1,000.

**Race** – Births are based on the reported race of the mother. Infant deaths are based on the reported race of the infant. In this report, race is categorized as “White”, “Black”, and “Total”. “Total” represents all races combined, which includes “White”, “Black”, and “Other”. “Other” means all other races besides White and Black, including unknown. In Indiana, “Hispanic” is classified as an individual’s ethnicity, not his or her race. Please see definition of Ethnicity. Please see Preface for OMB standards regarding race.

**Ratio of Black to White Infant Mortality Rate** – Black infant mortality rate divided by white infant mortality rate. The ratio is unstable if the numerator or denominator is less than 20. The ratio can be calculated with neonatal and Post-neonatal mortality rates, also.

**Resident Live Birth** – The live birth of an infant whose mother’s usual residence is in Indiana, regardless of where the birth occurred (inside Indiana or elsewhere).

**Smoked During Pregnancy** – This information is self-reported by the mother.

**Stable Rate** – A rate containing a minimum of 20 occurrences or events (e.g., births or deaths) per unit being examined (e.g., county or state).

**Unstable Rate** – When the numerator or denominator is less than 20, the rate is unstable. A small change in the numerator or denominator can lead to a large change in the rate from one year to the next. Some of the rates shown in this report are based on a small number of live births or deaths by age or race. ***The unstable rates are shown in this report, but we do not recommend using unstable rates. Unstable rates do not lend themselves to being used to make decisions.***

**Very Low Birthweight (VLBW)** – Birthweight less than 1,500 grams (3 lb. 5 oz.)

## Appendix A

### Infant Mortality Cause of Death Category ICD-10 Codes

<b>Cause of Death Category</b>	<b>Description</b>	<b>ICD-10 Code</b>
<i>Perinatal Risks</i>	Certain conditions originating in the perinatal period (low birthweight, preterm, premature rupture of membranes, bacterial sepsis of newborn, etc.).	P00-P96
<i>Congenital Abnormalities and Malformations</i>	Physical defects present at birth that result from genetics, through exposure of the fetus to mal-forming agents, or are of unknown origin.	Q00-Q99
<i>Sudden Unexpected Infant Deaths (SUIDs)</i>	Sleep-related infant deaths and unexpected deaths of no known cause after investigation. Includes Sudden Infant Death Syndrome (SIDS) and accidental suffocation and strangulation in bed. (Centers for Disease Control and Prevention recommendation)	R95, R99, W75
<i>Assaults and Other Accidents</i>	Deaths related to homicide, neglect, and preventable accidents not included in the SUIDs category (inhalation, ingestion, falls, motor vehicle accidents, etc.).	V01-W74, W76-W99, X00-59, X85-Y09, Y20, Y86
<i>All Other Causes</i>	Residual causes of deaths	Residual